



NICHOLSON

NICHOLSON FILE CO. • PROVIDENCE, R.I., U.S.A.

N-S

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NICHOLSON FILE COMPANY

PROVIDENCE 1, RHODE ISLAND, U. S. A.



NICHOLSON
X
U.S.A.

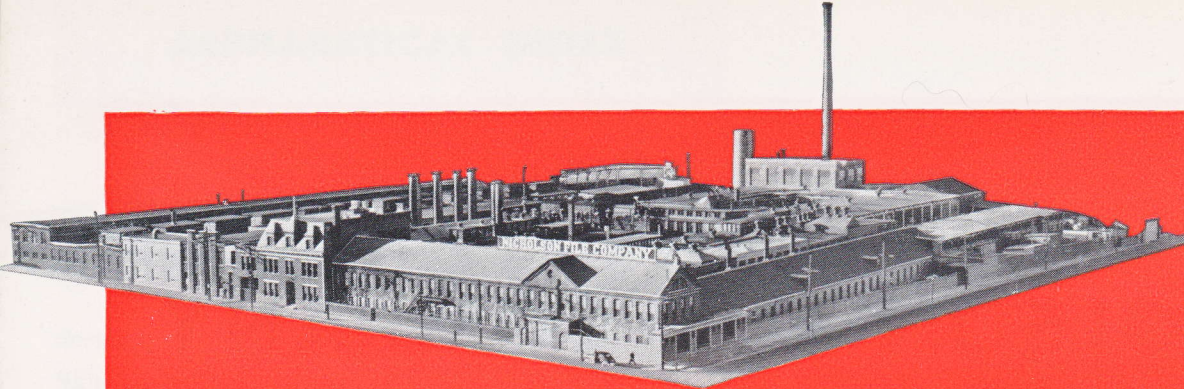
NICHOLSON
TRADE
EXTRA  FINE
MARK
SWISS PATTERN FILES



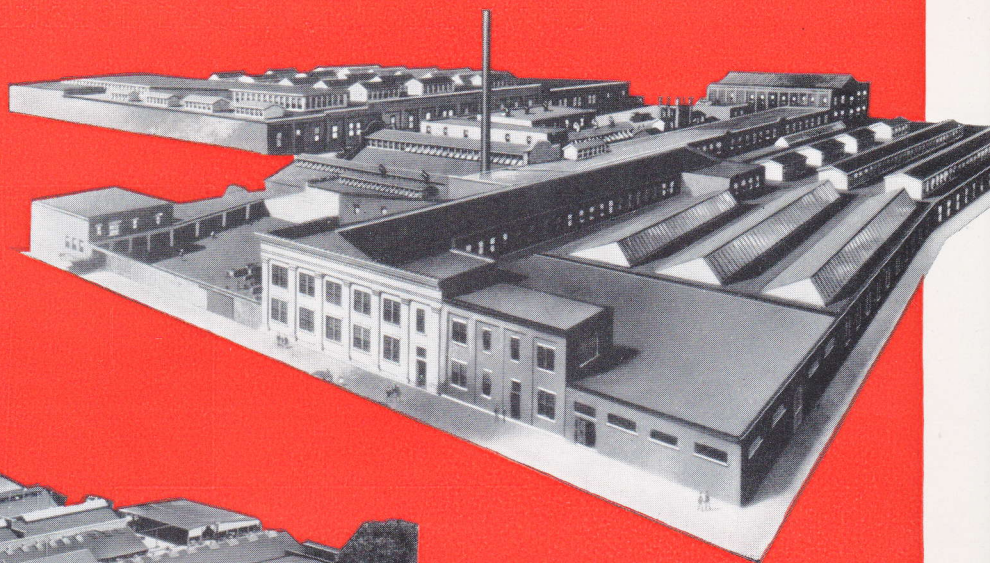
FILES

AND

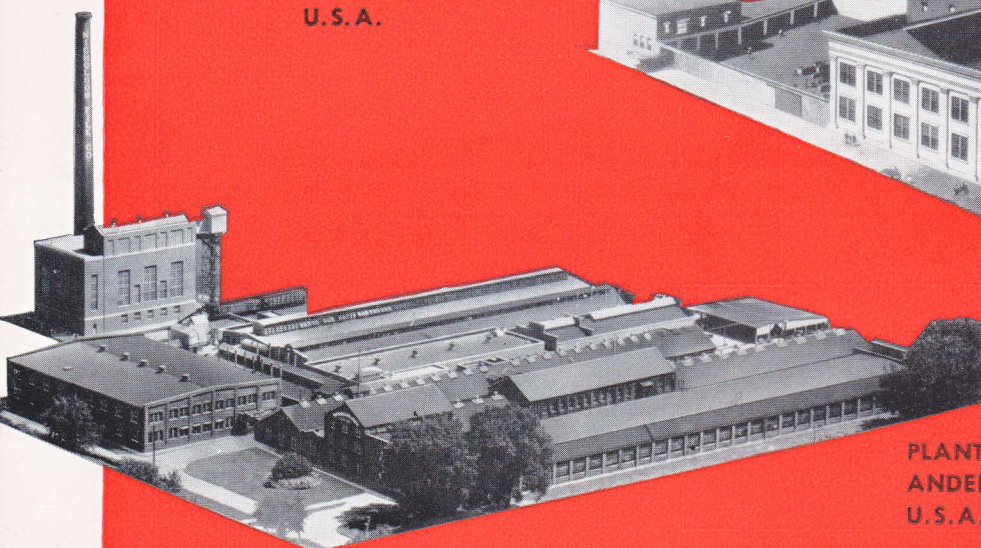
RASPS



PLANT AT
PROVIDENCE, R. I.
U.S.A.



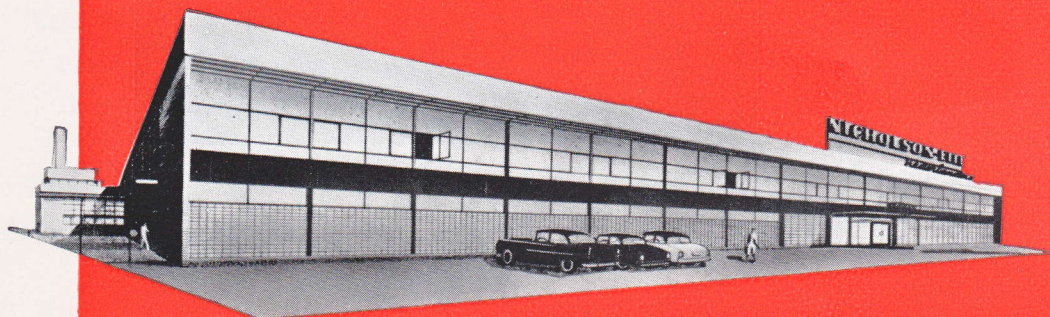
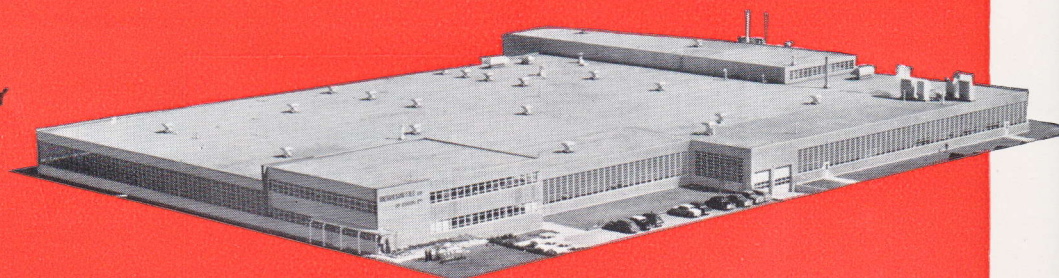
PLANT AT
PHILADELPHIA, PA.
U.S.A.



PLANT AT
ANDERSON, IND.
U.S.A.

NICHOLSON FILE COMPANY
OF CANADA LTD.

PORT HOPE, ONTARIO



NICHOLSON FILE NEDERLAND N. V.

's-HERTOGENBOSCH, NETHERLANDS



FOREWORD

Nicholson File Company was founded in 1864, by Mr. William T. Nicholson, great grandfather of the President of the Company today. It is one of the relatively few manufacturing organizations in the United States which has been managed by four succeeding generations of the same family. That Nicholson File Company has been managed successfully is shown by its standing in domestic and overseas markets today. Repeated surveys demonstrate that its products are preferred by more than 80% of file users, and the phrase, "Twelve Perfect Files in Every Dozen," is associated everywhere with the Company's Nicholson and Black Diamond Brands.

As the world's largest and leading manufacturer of files and rasps, Nicholson File Company makes "A File For Every Purpose." The diversity of its files is shown in this catalog, specifically designed to help you select the types and sizes you require. Within the main classifications—American Pattern, X. F. Swiss Pattern, etc.,—you will find all items indexed alphabetically for quick reference. Illustrations, descriptive and tabular matter are clearly arranged for your easy reading.

May we call your attention to our line of Rotary Power Files and Burs, which are rapidly receiving the same position of leadership so long enjoyed by our hand steel files and rasps.

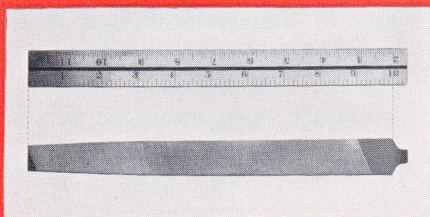
Nicholson products are sold through wholesale distributors, who, in turn, make them available to industry and to retail dealers. They are probably more widely distributed than any other hand tool and are immediately available from your regular source of supply.

As you choose the items which meet your needs, you have the assurance that they are guaranteed as to quality and performance by the world's leading file manufacturer.

NICHOLSON FILE COMPANY
Providence 1, R. I., U. S. A.

HOW TO ORDER FILES . . .

Be sure to specify length, shape, coarseness and kind of teeth in addition to name of file. It will help us fill your order correctly.



LENGTH

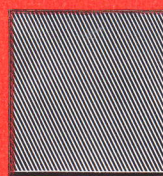
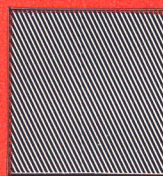
This is measured exclusive of Tang. Be certain to insert the length of the file on your order i.e. "8-inch" Mill Bastard. If you fail to do so, delay results.

Comparative Coarseness 10" Mill

BASTARD

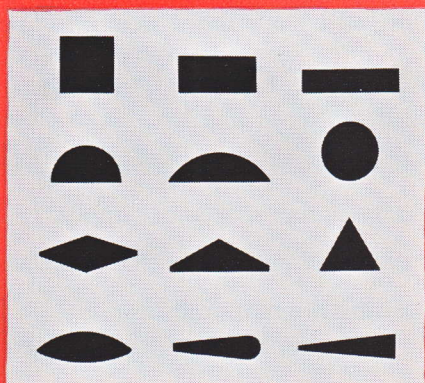
SECOND CUT

SMOOTH



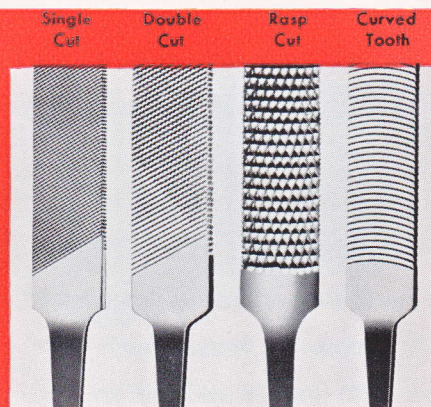
COARSENESS

Do you want a file for roughing or finishing? Be sure to specify Bastard, Second Cut or Smooth. If file is X.F. Swiss Pattern, specify by cut number such as 00, 0, etc.



SHAPE

Literally dozens of shapes are available but we must know what shape you want. Study the catalog and be sure that you include the shape as well as the length.



KINDS OF TEETH

Study the catalog to make certain that file has kind of teeth you require. If file should be specially sharpened for Plastics, Stainless Steel, etc., be sure to say so.

STANDARD CASE QUANTITIES OF FILES AND RASPS

Kind	Size Inches	Quantity Dozens	Approximate Gross Weight Per Case Lbs.	Kind	Size Inches	Quantity Dozens	Approximate Gross Weight Per Case Lbs.
MILL	4	250	104	ROUND	4	250	73
	6	100	128		6	100	84
	7	85	175		7	100	129
	8	50	145		8	75	146
	10	25	135		10	40	138
	12	20	190		12	18	131
	14	15	208		14	12½	161
	16	10	217		16	8	167
TAPER	6	60	150	SQUARE	4	250	73
	7	50	167		6	100	97
	8	40	181		8	75	178
	10	30	239		10	40	166
SLIM TAPER	4	250	88		12	18	164
	4½	200	98		14	12½	199
	5	200	124		16	8	211
	6	100	102		18	6	250
	7	85	153	HAND	6	80	157
	8	50	143		8	50	241
	10	25	130		10	24	219
	12	12½	122		12	15	216
EXTRA SLIM TAPER	4	250	73		14	10	224
	4½	200	73		16	8	200
	5	200	99	WARDING	4	250	88
	5½	150	92		6	100	84
	6	160	134		8	50	86
	7	100	123		10	30	94
	8	75	176	KNIFE	6	110	120
DOUBLE EXTRA SLIM TAPER	4	275	60		8	50	118
	4½	250	73		10	25	113
	5	200	72	DOCTOR BLADES	14	10	217
	6	175	94		10	20	106
	7	112	94	CABINET RASPS	12	12	110
	8	100	115		14	10	148
DOUBLE ENDERS	6	60	59	FLAT WOOD RASPS	12	10	125
	7	100	78		14	7½	150
	8	88	109	HALF ROUND WOOD RASPS	10	15	83
	9	60	120		12	10	113
	10	54	133		14	7½	136
CANT SAW	6	100	140		16	6	156
	8	50	150	HALF ROUND SHOE RASPS	8	25	111
	10	30	198		12	12	175
CROSS CUT—GREAT AMERICAN	8	50	178	PLAIN HORSE RASPS REG.	14	8	150
	10	30	190		16	6	169
FLAT	4	115	73	PLAIN HORSE RASPS SLIM	18	6½	179
	6	80	139		20	3½	125
	8	50	192	TANGED HORSE RASPS REG.	12	6	136
	10	24	178		14	6	166
	12	15	182		16	3½	135
	14	10	195	TANGED HORSE RASPS THIN	14	6	150
	16	8	228				
	18	6	235				
HALF ROUND	4	115	80				
	6	80	124				
	8	50	167				
	10	24	150				
	12	15	157				
	14	10	171				
	16	7	170				

IN POUNDS AND OUNCES PER DOZEN—AMERICAN PATTERN FILES

IN REGULAR CARDBOARD BOXES

KINDS	4"	4½"	5"	5½"	6"	7"	8"	9"	10"	12"	14"	16"	18"
Aluminum Type A Flat.....					1- 9		3-12		7- 3	11- 4			
Aluminum Type A Half Round.....					1- 3		2-12		5- 8	10- 7			
Auger Bit.....					-11								
Bandsaw Blunt.....					2- 5		4-15						
Bandsaw Blunt Slim.....					1- 2		2-15						
Bandsaw, Skiptooth, Blunt.....			-11		-14								
Bandsaw, Skiptooth, Diamond Point.....			-11		-13								
Bandsaw Taper 6" No. 63, Narrow Edges.....					2- 1								
Bandsaw Taper Slim 6" No. 64, Narrow Edges.....					1- 7								
Bandsaw Taper 7" No. 73, Narrow Edges.....					2- 3								
Bandsaw Taper Slim 7" No. 74, Narrow Edges.....					1-10								
Brass, Half Round.....							2-12		5-15		10- 2		
Cabinet Files.....							2-13		5- 7		9- 1		
Cabinet Rasps.....					1- 6		2-15		5- 7	9- 3	14-		
Cantsaw.....					1- 7	2- 3	3- 3		5- 9				
Chain Saw, Bevel.....						2-							
Chain Saw, Flat, No. 17.....						2-							
Chain Saw, Flat, No. 18.....							2-14						
Chain Saw, Flat, Narrow, No. 188.....							1-10						
Chain Saw, Lozenge, No. 60.....					-15								
Chain Saw, Round, No. 183.....							1-						
Chain Saw, Round, No. 1835.....							1- 2						
Chain Saw, Round, No. 184.....							1- 8						
Chain Saw, Round, No. 185.....							2- 5						
Chain Saw, Round, No. 186.....							3-						
Chain Saw, Round, No. 189.....							1-14						
Chain Saw, Round, No. 1630.....					- 9								
Chain Saw, Round, No. 1635.....					-14								
Chain Saw, Square, No. 26.....					-14								
Crosscut, Great American.....					1-12		3- 4		6- 1				
Crosscut, Special.....					1- 5	2-	3-		5-10				
Die Cast, Mill Bastard.....					1- 3		2-14		5- 4	9- 1	13- 8		
Die Cast, Half Round Smooth.....					1- 7		3- 5		6- 1	10- 7	16-		
Doctor Blade.....											16- 1		
Double Ender (With Handle).....					-11	-13	1- 4	2-	2- 6				
Flat.....	-9				1- 9		3-12		7- 3	11- 4	16- 1	23-15	30- 2
Foundry, Flat, Bastard.....							3-12		7- 3	11- 4	16- 1		
Foundry, Half Round Bastard.....							3- 5		6- 1	10- 7	16-		
Half Round.....	-9				1- 9		3- 5		6- 1	10- 7	16-	22-12	
Hand.....					1-12		3-14		7- 8	11- 6	17- 2		
Handy File.....							5-10						
Horse Rasp, Plain—One-Half File Regular.....										13- 9	19-10	27-14	
Horse Rasp, Plain—One-Half File Slim.....												22- 4	27- 5
Horse Rasp, Platers Special, Extra Thin.....											19-		
Horse Rasp, Platers Special, Double Extra Thin.....											16-		
Horse Rasp, Tanged, Regular.....											26- 4	35- 9	
Horse Rasp, Tanged, Thin.....											19-13		

NOTE—Figures before Dash (–) indicate Lbs. Figures after Dash (–) indicate Oz.

The approximate weights (not guaranteed) of our most frequently ordered regular items are given above.

IN POUNDS AND OUNCES PER DOZEN—AMERICAN PATTERN FILES

IN REGULAR CARDBOARD BOXES

KINDS	4"	4½"	5"	5½"	6"	7"	8"	9"	10"	12"	14"	16"	18"
Knife	-6				1- 3		2- 5		4- 6				
Lathe, Long Angle									7- 3	11- 4	16- 1		
Lead Float, Flat							3-12		7- 3	11- 4			
Lead Float, Half Round							3- 5		6- 1	10- 7			
Magicut													
Mill	-8				1- 3	1-15	2-14		5- 4	9- 1	13- 8	19- 5	
Mill, 1 Round Edge					1- 3		2-13		5- 1	8-14			
2 Round Edges					1- 3		2-11		5- 1				
Pillar					1-12		3-11		6-10	11- 5	17-14		
Planer Knife							2- 9		5- 2				
Pruning Saw					3- 2								
Rotary Mower									4- 8				
Round	-4				-14	1- 2	1- 6		3- 3	6-13	11-15	19- 4	
Sector					1- 4								
Shear Tooth, Flat					1- 9		3-12		7- 3	11- 4	16- 1		
Shear Tooth, Half Round					1- 7		3- 5		6- 1	10- 7	16-		
Shoe Rasp, Half Round (4 in Hand)							4- 2	5-10	7-12				
Square	-4				1- 1		1-15		3-14	8- 6	15- 6	25- 6	
Taper, Regular					2-	2-15	4- 5		7-12				
Improved Taper (6 x ¾)					4-								
Improved Taper (6 x ¼)					5-10								
Slim Taper	-6		- 9		1- 1	1-11	2-10		5- 3				
Extra Slim Taper	-4		- 6	- 8	-11	1- 3	1-14						
Double Extra Slim, Taper	-3		- 5		- 9	-10	1- 1						
Taper, Double Cut, M.F.					2-	2-15							
Taper, Slim Double Cut, M.F.					1- 1	1-11	2-10						
Taper, Extra Slim Double Cut, M.F.					-11	1- 3	1-14						
Taper, Double Extra Slim Double Cut, M.F.					- 9	-10	1- 1						
Testing, Mill							2-14		5- 4	9- 1			
Three Square					1-13		4- 4		7- 8	12-15			
Warding	-5				-15		1-10		2-15	4-15			
Web Saw			2-	2- 8	3-								
Weed's Special (with Handle)			-12	-13	1- 1								
Wood File, Flat							3-12		7- 3	11- 4	16- 1		
Wood File, Half Round							3- 5		6- 1	10- 7	16-		
Wood Rasps, Flat							3-14		7- 8	11- 8	18- 6		
Wood Rasps, Half Round					1- 8		3- 7		6- 8	11-	16-	23-12	
Wood Rasps, Round					-15		1-10		3- 4	7-	12- 1		

NOTE—Figures before Dash (-) indicate Lbs. Figures after Dash (-) indicate Oz.

The approximate weights (not guaranteed) of our most frequently ordered regular items are given above.

IN POUNDS AND OUNCES PER DOZEN—X.F. SWISS PATTERN FILES
IN REGULAR CARDBOARD BOXES

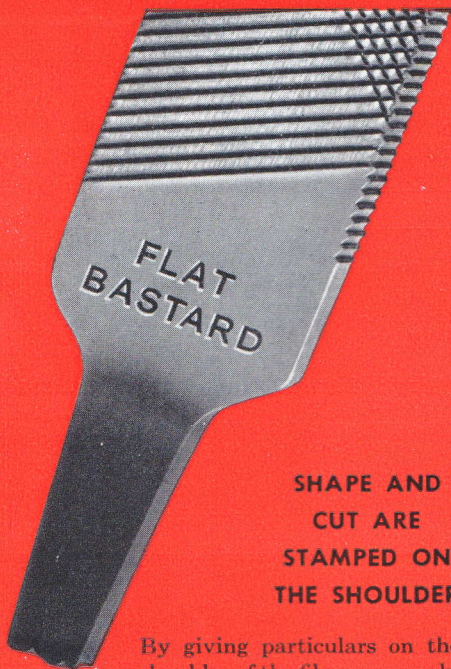
KINDS	3"	4"	5"	5½"	6"	6¼"	6½"	7½"	8"	10"	12"
Barrette.....	- 3	- 9			1- 5				2-14		
Broach.....	- 1										
Corrugating, Hand.....					2- 5						
Crochet.....	- 4	- 7			1- 1				2- 7	4-	
Crossing.....	- 4	-10			1-14				4-	6- 2	
Equaling.....		- 8			1- 5				3- 5		
Half Round.....	- 4	- 8	-12		1- 9				2-11	6- 3	9- 8
Half Round Ring.....					1- 4						
Hand.....	- 7	-14			2- 5				4- 9	8-	14- 8
Joint, Thick—Round or Square Edge.....		- 8									
Joint, Thin—Round or Square Edge.....		- 5									
Knife.....		- 7			1- 2				2- 3		
Needle, Round Handle.....		- 2		- 4		- 6					
Needle, Square Handle.....				- 3							
Pillar.....	- 5	-10			1-10				3- 8	6- 3	9-12
Pillar Extra Narrow.....	- 3	- 5			-13				1-15	3-11	6-
Pillar Narrow.....	- 4	- 8			1- 4				2-10	5- 3	8- 8
Pillar Testing.....					1-10						
Pillar Testing, Narrow.....									2-10		
Pippin.....		- 7			1- 1				1-13		
Rifflers, Die Sinkers, Set of 12.....							- 6				
Rifflers, Silversmiths.....								-15			
Round.....	- 1	- 4	- 6		-11				1- 5	2-11	4-10
Round Straight.....		- 4			-14				1-12		
Screw Head, Plain.....	- 2										
Screw Head, Tang.....	- 3										
Slitting.....		- 6			-14						
Square.....	- 2	- 4			-10				1- 8	3-	
Three Square.....	- 3	- 6			1-10				2-10	4-11	
Warding.....		- 5			-13				1-10	2-15	

BENCH FILING MACHINE FILES			3½" DIE SINKERS FILES		5" PARALLEL MACHINE FILES	
Kind	Weight		Kind	Weight	Kind	Weight
	3¼" x ¼"	3¼" x ⅛"				
Cant.....	- 6	- 3	Auriform.....	- 4	Cant.....	-14
Crochet.....	- 8	- 3	Flat.....	- 4	Crochet.....	-11
Equaling.....	- 7	- 3	Flat 1 S.E.....	- 4	Equaling.....	-11
Half Round.....	- 8	- 3	Flat 2 R.E.....	- 3	Half Round.....	-10
Knife.....	- 6	- 3	Half Round.....	- 5	Knife.....	- 9
Lozenge.....	- 6	- 3	Knife.....	- 3	Lozenge.....	-12
Oval.....	- 8	- 3	Lozenge.....	- 4	Oval.....	-11
Pillar.....	- 7	- 3	Oval.....	- 4	Pillar.....	-12
Pippin.....	- 8	- 3	Oval 1 S.E.....	- 4	Pippin.....	- 6
Round.....	-10	- 3	Round.....	- 3	Round.....	1- 1
Square.....	- 8	- 3	Square.....	- 5	Square.....	1- 5
Three Square.....	- 7	- 3	Three Square.....	- 4	Three Square.....	- 6

NOTE—Figures before Dash (-) indicate Lbs. Figures after Dash (-) indicate Oz.

The approximate weights (not guaranteed) of our most frequently ordered X.F. items are given above.

**You always buy the RIGHT FILE
When you buy NICHOLSON**



**SHAPE AND
CUT ARE
STAMPED ON
THE SHOULDER**

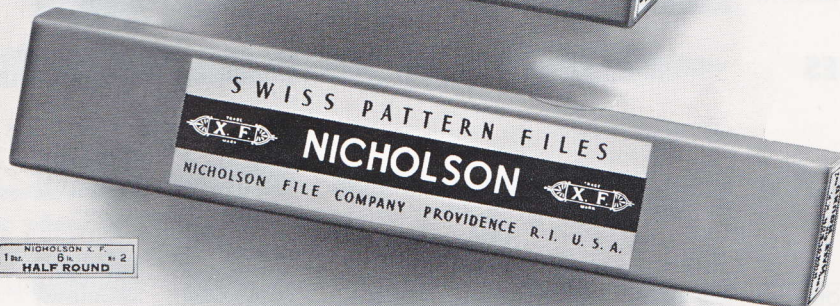
By giving particulars on the shoulder of the file we are making it easy not only to select a high quality file but also the right type of file. There is never a chance for confusion.



On one side the Brand tells you it is a highest quality file. On the other side is stamped the cut. Shape is also given unless this is obvious. Never any question of what you are buying.



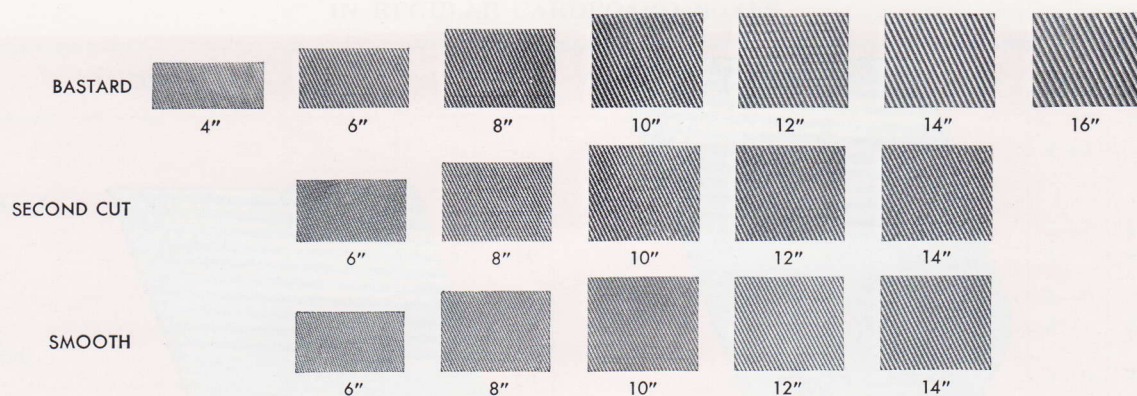
**NICHOLSON
FLAT BASTARD
1 DOZ. 8 INCH**



**NICHOLSON X.F.
1 IN. 8 IN. N. 2
HALF ROUND**

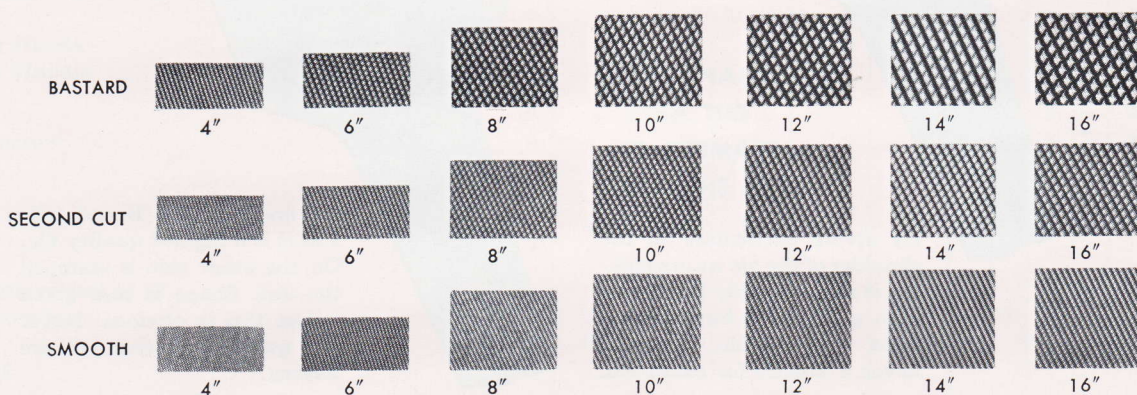
MILL FILES

The following illustrations show the actual coarseness of Mill files.



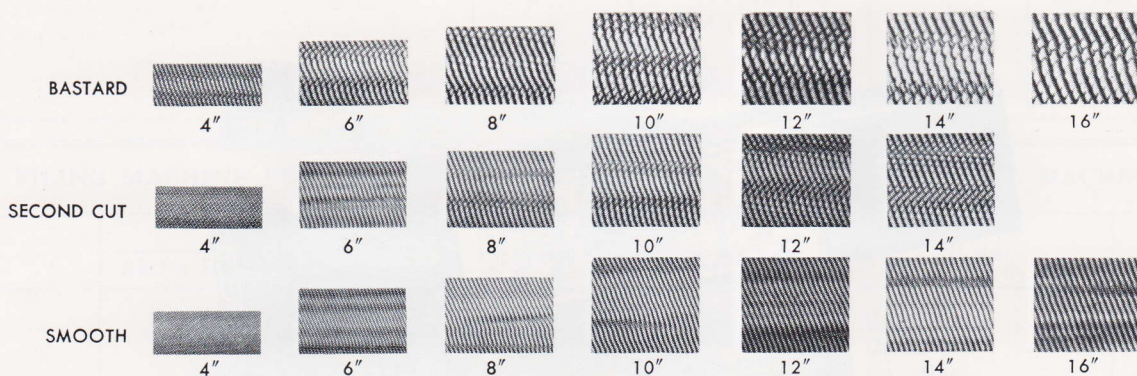
FLAT FILES

The following illustrations show the actual coarseness of Flat files.



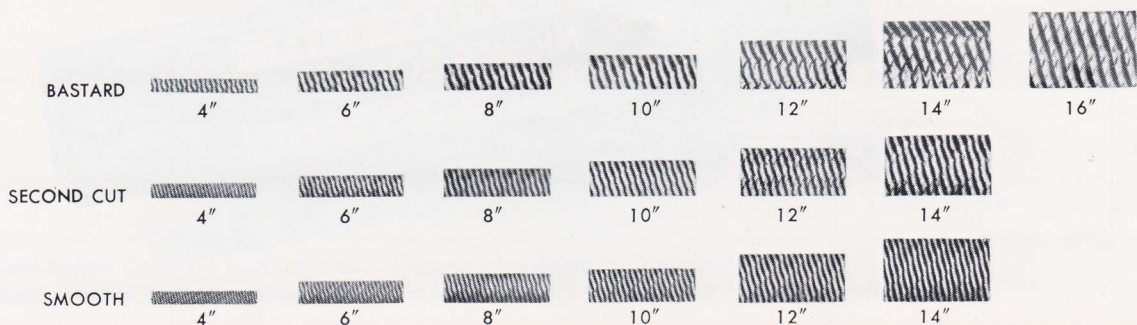
HALF ROUND FILES

The following illustrations show the actual coarseness of Half Round files.



ROUND FILES

The following illustrations show the actual coarseness of Round files.



ALUMINUM FILES — TYPE "A" FLAT



Type "A" Aluminum Files have a special tooth construction which experience shows to be very effective in eliminating clogging. A smooth finish can be readily obtained by using a shearing cut toward the left.

Made in Flat and Half Round shapes. Double cut. All sizes have exactly the same cut; that is, the same number of teeth per inch. Half rounds have narrow points in 6", 8" and 10" sizes only.

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$\frac{5}{8} \times \frac{5}{32}$	1 doz.	1 lb., 9 oz.
8	$2\frac{5}{32} \times \frac{7}{32}$	1 doz.	3 lbs., 12 oz.
10	$3\frac{1}{32} \times \frac{1}{4}$	$\frac{1}{2}$ doz.	7 lbs., 3 oz.
12	$1\frac{5}{32} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	11 lbs., 4 oz.

Made in Grade A Brands only.

ALUMINUM FILES — TYPE "A" HALF ROUND



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$1\frac{9}{32} \times \frac{5}{32}$	1 doz.	1 lb., 3 oz.
8	$\frac{3}{4} \times \frac{7}{32}$	1 doz.	2 lbs., 12 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	5 lbs., 8 oz.
12	$1\frac{1}{8} \times 1\frac{1}{32}$	$\frac{1}{2}$ doz.	10 lbs., 7 oz.

Made in Grade A Brands only.

AUGER BIT FILES



Auger Bit Files are designed to restore the original sharpness to the cutting edges of bits. One end of file has its edges left safe or uncut while the other end has safe sides. This construction prevents damage to surfaces adjacent to those being filed. Made in 7-inch length only.

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
7	$1\frac{1}{32} \times \frac{1}{16}$	1 doz.	11 oz.

Made in Grade A Brands only.

BANDSAW BLUNT FILES



Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
6	$\frac{15}{32}$	1 doz.	2 lbs., 5 oz.
8	$\frac{19}{32}$	1 doz.	4 lbs., 15 oz.

For sharpening Bandsaws with well rounded gullets between saw teeth. Blunt in section. Single cut. Rounded edges are cut with three rows of teeth to preserve the shape of gullets.

BANDSAW BLUNT SLIM FILES



Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
6	$\frac{5}{16}$	1 doz.	1 lb., 2 oz.
8	$\frac{15}{32}$	1 doz.	2 lbs., 15 oz.

BANDSAW FILES — SKIP-TOOTH



BANDSAW BLUNT—(SKIP-TOOTH)

Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
5	$\frac{7}{32}$	1 doz.	11 oz.
6	$\frac{7}{32}$	1 doz.	14 oz.

BANDSAW DIAMOND POINT—(SKIP-TOOTH)

Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
5	$\frac{7}{32}$	1 doz.	11 oz.
6	$\frac{7}{32}$	1 doz.	13 oz.

Made in Grade A Brands only.

Skip-Tooth Bandsaw Saw Files, which are six sided, are designed for sharpening skip-tooth bandsaws in butcher shops and meat markets. Skip-Tooth Files have sides which are alternately narrow and wide. The narrow sides of the file are used to file the gullets of the saw. These sides are held to tolerances which insure uniformity in the width of the gullets. The seating of the narrow edge in the gullet permits the filing of the back side of the tooth with the wide side of the file. Note that it is necessary to feed the saw from the right, with the points of the saw facing to the right.

Nicholson Skip-Tooth Bandsaw Files are made for 6 point saws only.

BANDSAW TAPER FILES With Narrow Edges



When ordering Special Narrow Bandsaw Files be sure to specify length and number. For example: 6" Bandsaw Taper No. 63, etc.

Length Inches	No.	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
6	Bandsaw Taper No. 63	$1\frac{5}{32}$	1 doz.	2 lbs., 1 oz.
6	Bandsaw Taper Slim No. 64	$\frac{3}{8}$	1 doz.	1 lb., 7 oz.
7	Bandsaw Taper No. 73	$1\frac{5}{32}$	1 doz.	2 lbs., 3 oz.
7	Bandsaw Taper Slim No. 74	$\frac{3}{8}$	1 doz.	1 lb., 10 oz.

A line of Bodifiles is available for those who work on automobile bodies, particularly in blending solder with sheet steel. Full particulars given on request. Made in Grade A Brands only.

BODIFILES

BRASS FILE — HALF ROUND



Brass, copper, bronze and similar metals, while softer than steel, are more malleable and ductile and tough. Thus, they frequently require a special file. Half Round Brass Files have a long overcut and a short upcut. Designed to cut rapidly and to eliminate as far as possible the tendency of regular purpose files to clog on this metal. These files should be used with as little pressure as possible; only enough in fact, to keep them cutting. Made in Half Round sections. Identified by the word "Brass" stamped on the tang. Double cut. In one degree of coarseness only. (Half Round Brass Files are made on fine pointed blanks).

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$2\frac{3}{32} \times \frac{3}{16}$	1 doz.	2 lbs., 12 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	5 lbs., 15 oz.
12	$1\frac{1}{8} \times 1\frac{1}{32}$	$\frac{1}{2}$ doz.	10 lbs., 2 oz.

Made in Grade A Brands only.

Specially designed for sharpening Butcher Saws. These files have edges that are the proper width for this purpose and are $4\frac{1}{2}$ " long and $\frac{1}{4}$ " wide.

BUTCHER SAW FILES

CABINET FILES



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$\frac{7}{8} \times \frac{3}{16}$	1 doz.	2 lbs., 13 oz.
10	$1 \frac{1}{8} \times \frac{7}{32}$	$\frac{1}{2}$ doz.	5 lbs., 7 oz.
12	$1 \frac{5}{16} \times \frac{1}{4}$	$\frac{1}{2}$ doz.	9 lbs., 1 oz.

Made for use by cabinetmakers and woodworkers. Cabinet Files are Half Round in section. Their radius is larger than that of Regular Half Round Files and they are thinner. Their teeth are slightly finer than those of the Wood Files.

See page 37 for Cabinet Rasps.

CANTSAW FILES



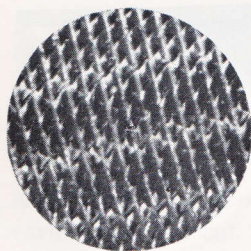
Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$1 \frac{7}{32} \times 1 \frac{5}{64}$	1 doz.	1 lb., 7 oz.
7	$3 \frac{9}{64} \times \frac{1}{4}$	1 doz.	2 lbs., 3 oz.
8	$1 \frac{1}{16} \times \frac{9}{32}$	1 doz.	3 lbs., 3 oz.
10	$1 \frac{3}{16} \times 1 \frac{1}{32}$	1 doz.	5 lbs., 9 oz.

For sharpening Crosscut Saws with "M" teeth, for circular saws and for saw teeth with less than 60° angle. Same number of teeth per inch as Mill Bastard files of equivalent length. Single cut. Edges set and cut. Regularly supplied with cut backs. Available with safe or uncut backs. "Cut backs" furnished unless "safe backs" definitely specified on order.

CHAIN SAW FILES

Nicholson File Company's line of Chain Saw Files, made in styles for use on all types of chains, have been developed for fast cutting, long life and good finish. The correct combination of tooth structure, shear angle and fineness of cut on each type of file provides the user with a selection unsurpassed for performance and quality. Each file, of course, has our unqualified guarantee behind it.

CHAIN SAW FILES — ROUND SMOOTH



This new Round Smooth Chain Saw File is a product of extensive research and development in the engineering laboratories of Nicholson File Company.

Field tests by chain saw users and competitive tests by many leading chain saw manufacturers prove that the new Round Smooth Chain Saw File is the SMOOTHEST-FEELING, FASTEST-CUTTING, and BEST-FINISHING.



Length Inches	Diam. Inches	Code No.	Number in Box	Approx. Weight Per Doz.
8	$\frac{3}{16}$	183	12	1 lb.
8	$\frac{7}{32}$	1835	12	1 lb., 2 oz.
8	$\frac{1}{4}$	184	12	1 lb., 8 oz.
8	$\frac{5}{16}$	185	12	2 lbs., 5 oz.
8	$\frac{3}{8}$	186	12	3 lbs.
8	$\frac{9}{32}$	189	12	1 lb., 14 oz.
6	$\frac{3}{16}$	1630	12	9 oz.
6	$\frac{7}{32}$	1635	12	14 oz.

Made in Grade A Brands only.

For sharpening round hooded type teeth.

CHAIN SAW FILES — FLAT



Code number together with words "Flat Chain Saw Files" are stamped on tang for identification.

Choice of length and edges depends on size of chain saw and shape of tooth gullets.

Length	Approx. Size Inches	Code No.	Number in Box	Approx. Weight Per Doz.
7" 2 rd. edges	$1\frac{1}{16} \times \frac{1}{8}$	17	12	2 lbs.
8" 2 rd. edges	$2\frac{3}{32} \times \frac{9}{64}$	18	12	2 lbs., 14 oz.
8" (Nar.) 2 rd. edges	$1\frac{9}{32} \times \frac{3}{32}$	188	12	1 lb., 10 oz.

Made in Grade A Brands only.

CHAIN SAW FILES — SQUARE



We recommend the Square File because it permits two cutting surfaces of the chain saw teeth to be filed simultaneously. Blunt in shape. Made in Grade A only.

Length Inches	Approx. Width Inches	Code No.	Number in Box	Approx. Weight Per Doz.
6	$\frac{7}{32}$	26	12	14 oz.

Made in Grade A Brands only.

CHAIN SAW FILES — LOZENGE



Length Inches	Approx. Size Inches	Code No.	Number in Box	Approx. Weight Per Doz.
6	$1\frac{1}{32} \times \frac{1}{4}$	60	12	15 oz.

Made in Grade A Brands only.

Preferred by some saw filers for sharpening hooded type chain saw teeth.

CHAIN SAW FILES — SPECIAL BEVEL



7" Special 565-D (for chisel bit chain)

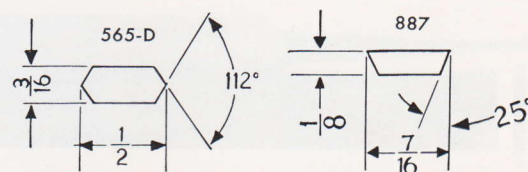
Dimensions	Number in Box	Weight Per Dozen
$\frac{1}{2}'' \times \frac{3}{16}''$	12	2 lbs.

7" Special 887 (for chisel bit chain)

Dimensions	Number in Box	Weight Per Dozen
$\frac{7}{16}'' \times \frac{1}{8}''$	12	1 lb., 4 oz.

Made in Grade A Brands only.

The illustration of "565-D" shows the general style of these Special Bevel Files. Diagrams give specific details.



CONTACT POINT FILES



Length Inches	Number in Box	Approximate Weight Per Gross
$5\frac{1}{4}$	1 doz. Boxed 1 doz. Carded	2 lbs., 8 oz. 3 lbs., 8 oz.

Contact Point Files are for cleaning dirt and corrosion from contact points and spark gaps of magnetos, coils, electric bells and switches. They are $5\frac{1}{4}$ inches in length and double cut. Approximate size $\frac{5}{16}'' \times .044''$. Approximate weight per gross boxed (one dozen in a box) 2 lbs., 8 oz. or carded (one dozen on a card) 3 lbs., 8 oz.

TUNGSTEN POINT FILES



Length Inches	Number in Box	Approximate Weight Per Gross
$5\frac{1}{4}$	1 doz. Boxed 1 doz. Carded	2 lbs., 8 oz. 3 lbs., 8 oz.

Tungsten Point Files are for dressing distributor points that are tipped with tungsten, iridium and similar metals. Files are $5\frac{1}{4}$ inches overall and double cut. Chisel tip of file enters slots or gaps easily. Extreme end of handle is a thickness gauge for spark plugs. Supplied with orange handle. Approximate size $\frac{5}{16}'' \times .044''$. Approximate weight per gross boxed (one dozen in a box) 2 lbs., 8 oz. or carded (one dozen on a card) 3 lbs., 8 oz.

CROSSCUT FILES — GREAT AMERICAN



Originally made for sharpening saws of Great American Type. Now used for sharpening variety of Crosscut Saws. Same number of teeth per inch as Mill Bastard files of same lengths. Rounded backs of files used to deepen rounded gullets of saw teeth. Single cut. Rounded back and thin edge are also cut.

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$\frac{9}{16} \times \frac{7}{32}$	1 doz.	1 lb., 12 oz.
8	$1\frac{1}{16} \times \frac{9}{32}$	1 doz.	3 lbs., 4 oz.
10	$1\frac{3}{16} \times \frac{23}{64}$	1 doz.	6 lbs., 1 oz.

CROSSCUT FILES — SPECIAL



Specially made for "sweet cutting" smoothness on Crosscut Saws. Files cut with lightest pressure. Single cut on sides and edges. Made on Mill Blunt blanks. Tangs painted orange. Each file cellophane wrapped.

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$1\frac{9}{32} \times \frac{7}{64}$	1 doz.	1 lb., 5 oz.
7	$1\frac{1}{16} \times \frac{1}{8}$	1 doz.	2 lbs.
8	$2\frac{5}{32} \times \frac{9}{64}$	1 doz.	3 lbs.
10	$3\frac{1}{32} \times 1\frac{1}{64}$	1 doz.	5 lbs., 10 oz.

DIE CAST FILES — MILL BASTARD



Die Cast Files for finishing die castings of aluminum-alloy and similar metals are made with extra strong teeth on sides, edges and corners to resist shelling off and breaking out. Teeth are designed to file die castings (various combinations of zinc, aluminum and magnesium). The design is intended to eliminate as far as possible the tendency of these metals to clog file teeth. Identified by words "Die Cast" on tang. Regularly made in Mill Bastard, and Half Round Smooth. See page 22.

Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
6	$1\frac{9}{32} \times \frac{7}{64}$	*	1 doz.	1 lb., 3 oz.
8	$2\frac{5}{32} \times \frac{9}{64}$	*	1 doz.	2 lbs., 14 oz.
10	$3\frac{1}{32} \times 1\frac{1}{64}$	*	1 doz.	5 lbs., 4 oz.
12	$1\frac{5}{32} \times \frac{7}{32}$	*	$\frac{1}{2}$ doz.	9 lbs., 1 oz.
14	$1\frac{5}{16} \times \frac{1}{4}$	*	$\frac{1}{2}$ doz.	13 lbs., 8 oz.

Made in Grade A Brands only. *Indicates Cuts Available.

DIE CAST FILES — HALF ROUND SMOOTH



Length Inches	Approx. Size Inches	Smooth Cut	Number in Box	Approx. Weight Per Doz.
6	$1\frac{9}{32} \times \frac{5}{32}$	*	1 doz.	1 lb., 7 oz.
8	$\frac{3}{4} \times \frac{7}{32}$	*	1 doz.	3 lbs., 5 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	*	$\frac{1}{2}$ doz.	6 lbs., 1 oz.
12	$1\frac{1}{8} \times 1\frac{1}{32}$	*	$\frac{1}{2}$ doz.	10 lbs., 7 oz.
14	$1\frac{9}{32} \times 1\frac{3}{32}$	*	$\frac{1}{2}$ doz.	16 lbs.

Made in Grade A Brands only. *Indicates Cuts Available.

DOCTOR BLADE FILES



Length Inches	Approx. Size Inches	Coarse Cut	Smooth Cut	Number in Box	Approx. Weight Per Doz.
14	$1\frac{5}{16} \times \frac{9}{32}$	*	*	$\frac{1}{2}$ doz.	16 lbs., 1 oz.

Made in Grade A Brands only. *Indicates Cuts Available.

Doctor Blade Files are made for filing Doctor Blades in the cloth printing industry. Made in one length only—14" without tang—parallel in width and thickness.

DOUBLE ENDER FILES



Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
6	$1\frac{3}{4}$	1 doz.	11 oz.
7	$\frac{7}{32}$	1 doz.	13 oz.
8	$\frac{9}{32}$	1 doz.	1 lb., 4 oz.
9	$1\frac{1}{32}$	1 doz.	2 lbs.
10	$\frac{3}{8}$	1 doz.	2 lbs., 6 oz.

Single cut on sides and edges from points to center giving filer full use of file. Six handles supplied with each dozen Double Ender Files.

FLAT FILES



Flat Files are used by machinists, machinery builders, ship and engine builders, repair men and others who require rapid removal of metal. They are rectangular in cross section and taper slightly towards point in both width and thickness. Double cut on both sides, single cut on both edges.

Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
4	1 $\frac{5}{32}$ x $\frac{3}{32}$	*	*	*	1 doz.	9 oz.
6	$\frac{5}{8}$ x $\frac{5}{32}$	*	*	*	1 doz.	1 lb., 9 oz.
8	2 $\frac{5}{32}$ x $\frac{7}{32}$	*	*	*	1 doz.	3 lbs., 12 oz.
10	3 $\frac{1}{32}$ x $\frac{1}{4}$	*	*	*	$\frac{1}{2}$ doz.	7 lbs., 3 oz.
12	1 $\frac{5}{32}$ x $\frac{9}{32}$	*	*	*	$\frac{1}{2}$ doz.	11 lbs., 4 oz.
14	1 $\frac{11}{32}$ x $\frac{9}{16}$	*	*	*	$\frac{1}{2}$ doz.	16 lbs., 1 oz.
16	1 $\frac{17}{32}$ x $\frac{11}{32}$	*	*	*	$\frac{1}{2}$ doz.	23 lbs., 15 oz.
18	1 $\frac{11}{16}$ x $\frac{3}{8}$	*	—	—	$\frac{1}{2}$ doz.	30 lbs., 2 oz.

*Indicates Cuts Available.

FOUNDRY FILES — FLAT



Developed by us for snagging castings in Foundries and now widely used for removing fins, sprues and other hard projections from castings, and for many other kinds of rough filing. Teeth made extra strong and rugged to stand severe usage.

Each file has "Foundry" stamped on it for identification.

Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
8	2 $\frac{5}{32}$ x $\frac{7}{32}$	*	1 doz.	3 lbs., 12 oz.
10	3 $\frac{1}{32}$ x $\frac{1}{4}$	*	$\frac{1}{2}$ doz.	7 lbs., 3 oz.
12	1 $\frac{5}{32}$ x $\frac{9}{32}$	*	$\frac{1}{2}$ doz.	11 lbs., 4 oz.
14	1 $\frac{11}{32}$ x $\frac{9}{16}$	*	$\frac{1}{2}$ doz.	16 lbs., 1 oz.

*Indicates Cuts Available.

FOUNDRY FILES — HALF ROUND



Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
8	$\frac{3}{4}$ x $\frac{7}{32}$	*	1 doz.	3 lbs., 5 oz.
10	1 $\frac{5}{16}$ x $\frac{9}{32}$	*	$\frac{1}{2}$ doz.	6 lbs., 1 oz.
12	1 $\frac{1}{8}$ x $\frac{11}{32}$	*	$\frac{1}{2}$ doz.	10 lbs., 7 oz.
14	1 $\frac{9}{32}$ x $\frac{13}{32}$	*	$\frac{1}{2}$ doz.	16 lbs.

*Indicates Cuts Available.

HALF ROUND FILES



Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
4	$\frac{7}{16} \times \frac{1}{8}$	*	*	*	1 doz.	9 oz.
6	$1\frac{19}{32} \times \frac{5}{32}$	*	*	*	1 doz.	1 lb., 7 oz.
8	$\frac{3}{4} \times \frac{7}{32}$	*	*	*	1 doz.	3 lbs., 5 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	*	*	*	$\frac{1}{2}$ doz.	6 lbs., 1 oz.
12	$1\frac{1}{8} \times 1\frac{11}{32}$	*	*	*	$\frac{1}{2}$ doz.	10 lbs., 7 oz.
14	$1\frac{9}{32} \times 1\frac{13}{32}$	*	*	*	$\frac{1}{2}$ doz.	16 lbs.
16	$1\frac{15}{32} \times 1\frac{15}{32}$	*	—	*	$\frac{1}{2}$ doz.	22 lbs., 12 oz.

*Indicates Cuts Available.

Rounded on one side. Flat on other. Used on concave and convex as well as flat surfaces. Backs of all Half Round Bastard Files are double cut. The backs of all Half Round Second Cut Files longer than 6 inches are double cut, the 4 and 6 inch files are single cut. The backs of all Half Round Smooth Files are single cut. The flat sides of all Half Round Files are double cut.

HAND FILES



Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
6	$\frac{5}{8} \times \frac{5}{32}$	*	*	*	1 doz.	1 lb., 12 oz.
8	$2\frac{5}{32} \times \frac{7}{32}$	*	*	*	1 doz.	3 lbs., 14 oz.
10	$3\frac{1}{32} \times \frac{1}{4}$	*	*	*	$\frac{1}{2}$ doz.	7 lbs., 8 oz.
12	$1\frac{5}{32} \times \frac{9}{32}$	*	*	*	$\frac{1}{2}$ doz.	11 lbs., 6 oz.
14	$1\frac{11}{32} \times \frac{5}{16}$	*	*	*	$\frac{1}{2}$ doz.	17 lbs., 2 oz.

*Indicates Cuts Available.

Similar to Regular Flat Files but taper in thickness only. Double cut. One edge safe or uncut. Same coarseness as Flat Files of corresponding lengths.

HANDY FILE



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$3\frac{1}{32} \times 1\frac{1}{4}$	12	5 lbs., 10 oz.

Made in Grade A Brands only.

This gives the user a combination file—single cut on one side for sharpening edged tools and smoothing metal surfaces; double cut on other side for rapid removal of metal. One edge is “cut” and the other is “safe” or “uncut.” Safety handle (painted orange). Convenient “hang up” hole. (Cellophane wrapped). Length measured exclusive of handle.

KNIFE FILES



Knife Files are of knife blade section and used principally by tool and die makers on work having acute angles. All double cut on sides and single cut on sharp edge. Knife Files are regularly supplied with safe backs, but can be purchased with cut backs at regular prices if so specified on customer's order.

Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
4	$1\frac{5}{32} \times \frac{7}{16}$	*	*	*	1 doz.	6 oz.
6	$2\frac{1}{32} \times \frac{5}{32}$	*	*	*	1 doz.	1 lb., 3 oz.
8	$2\frac{7}{32} \times \frac{3}{16}$	*	*	*	1 doz.	2 lbs., 5 oz.
10	$1\frac{1}{32} \times \frac{1}{4}$	*	*	*	1 doz.	4 lbs., 6 oz.

*Indicates Cuts Available.

LEAD FLOAT FILES — FLAT



Lead Float Files are for use on lead, babbitt and other soft metals. Made in Rectangular and Half Round sections. Tapered slightly in width and thickness. Very coarse cut—teeth of flat sides have 15° angle, backs of Half Round have 5° angle.

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$2\frac{5}{32} \times \frac{7}{32}$	1 doz.	3 lbs., 12 oz.
10	$3\frac{1}{32} \times \frac{1}{4}$	$\frac{1}{2}$ doz.	7 lbs., 3 oz.
12	$1\frac{5}{32} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	11 lbs., 4 oz.

LEAD FLOAT FILES — HALF ROUND



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$\frac{3}{4} \times \frac{7}{32}$	1 doz.	3 lbs., 5 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	6 lbs., 1 oz.
12	$1\frac{1}{8} \times 1\frac{1}{32}$	$\frac{1}{2}$ doz.	10 lbs., 7 oz.

LONG ANGLE LATHE FILES



Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
10	$3\frac{1}{32} \times \frac{1}{4}$	*	$\frac{1}{2}$ doz.	7 lbs., 3 oz.
12	$1\frac{5}{32} \times \frac{9}{32}$	*	$\frac{1}{2}$ doz.	11 lbs., 4 oz.
14	$1\frac{11}{32} \times \frac{5}{16}$	*	$\frac{1}{2}$ doz.	16 lbs., 1 oz.

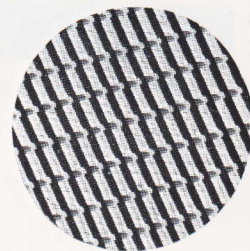
*Indicates Cuts Available.

Long Angle Lathe Files are rapid, free cutting files, designed for lathe filing. Cut faster than regular Mill files and leave a smoother finish. Made on Flat blanks. Edges are safe or uncut to protect the shoulder or dog. Identified by words "Flat Long Angle" on file. All Long Angle Files are single cut.

MAGICUT



Enlarged close up shows the unique pattern of narrow chip breakers created by steep angled serrations. This maximum cutting surface design gives rapid removal and smoother finish.



MAGICUT FLAT

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$2\frac{5}{32} \times \frac{7}{32}$	1 doz.	3 lbs., 12 oz.
10	$3\frac{1}{32} \times \frac{1}{4}$	1 doz.	7 lbs., 3 oz.
12	$1\frac{5}{32} \times \frac{7}{32}$	$\frac{1}{2}$ doz.	11 lbs., 4 oz.
14	$1\frac{11}{32} \times \frac{5}{16}$	$\frac{1}{2}$ doz.	16 lbs., 1 oz.

MAGICUT HALF ROUND

8	$\frac{3}{4} \times \frac{7}{32}$	1 doz.	3 lbs., 5 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	6 lbs., 1 oz.
12	$1\frac{1}{8} \times \frac{11}{32}$	$\frac{1}{2}$ doz.	10 lbs., 7 oz.
14	$1\frac{9}{32} \times \frac{13}{32}$	$\frac{1}{2}$ doz.	16 lbs.

MAGICUT SQUARE

8	$\frac{5}{16}$	1 doz.	1 lb., 15 oz.
10	$\frac{3}{8}$	$\frac{1}{2}$ doz.	3 lbs., 14 oz.
12	$\frac{1}{2}$	$\frac{1}{2}$ doz.	8 lbs., 6 oz.
14	$\frac{5}{8}$	$\frac{1}{2}$ doz.	15 lbs., 6 oz.

Made in Grade A Brands only.

"Magicut" is a file name which the machinist will remember once he has tried this new product of Nicholson File Company research on metals ranging from brass and bronze to malleable iron, annealed tool steel and stainless steel.

"Magicut" is a machinist's all purpose file, which removes stock rapidly and leaves a smooth finish at the same time, thus eliminating the need for extra filing strokes.

Hundreds of individual, razor keen, penetrating planer type teeth go to work when you use "Magicut." Perfectly formed gullets eliminate "pinning" and consequent scratching. "Magicut" will outperform any other file designed for similar work by indisputable margins.

MILL FILES



For sharpening Mill or Circular Saws. Also for draw-filing, and finishing metals. All sizes tapered slightly in width, 12", 14" and 16" tapered slightly in thickness for about one-third of length. Two square edges. Single cut on sides and edges.

Length Inches	Approx. Size Inches	Bastard Cut	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
4	$\frac{7}{16} \times \frac{5}{64}$	*	*	*	1 doz.	8 oz.
6	$1\frac{1}{32} \times \frac{7}{64}$	*	*	*	1 doz.	1 lb., 3 oz.
7	$1\frac{1}{16} \times \frac{1}{8}$	*	—	—	1 doz.	1 lb., 15 oz.
8	$2\frac{5}{32} \times \frac{9}{64}$	*	*	*	1 doz.	2 lbs., 14 oz.
10	$3\frac{1}{32} \times 1\frac{1}{64}$	*	*	*	1 doz.	5 lbs., 4 oz.
12	$1\frac{5}{32} \times \frac{7}{32}$	*	*	*	$\frac{1}{2}$ doz.	9 lbs., 1 oz.
14	$1\frac{5}{16} \times \frac{1}{4}$	*	*	*	$\frac{1}{2}$ doz.	13 lbs., 8 oz.
16	$1\frac{1}{2} \times \frac{9}{32}$	*	—	—	$\frac{1}{2}$ doz.	19 lbs., 5 oz.

*Indicates Cuts Available.

MILL FILES — 1 and 2 Round Edges



ONE ROUND EDGE

Same as regular Mill Files except that they have one or two round edges. Bastard Cut. Single cut on sides and edges. Round edges are used where rounded gullets are preferred, as compared to sharp corners or squared gullets.

Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
6	$1\frac{1}{32} \times \frac{7}{64}$	*	1 doz.	1 lb., 3 oz.
8	$2\frac{5}{32} \times \frac{9}{64}$	*	1 doz.	2 lbs., 13 oz.
10	$3\frac{1}{32} \times 1\frac{1}{64}$	*	1 doz.	5 lbs., 1 oz.
12	$1\frac{5}{32} \times \frac{7}{32}$	*	$\frac{1}{2}$ doz.	8 lbs., 14 oz.

*Indicates Cuts Available.

TWO ROUND EDGES

Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
6	$1\frac{1}{32} \times 1\frac{1}{64}$	*	1 doz.	1 lb., 3 oz.
8	$2\frac{5}{32} \times \frac{9}{64}$	*	1 doz.	2 lbs., 11 oz.
10	$3\frac{1}{32} \times 1\frac{1}{64}$	*	1 doz.	5 lbs., 1 oz.

*Indicates Cuts Available.

MILL FILES — Western Cut

Mill Western Cut files are available in Grade A brands for those who desire fast cutting Mill Files. They are slightly coarser than Mill Bastard.

PILLAR FILES



Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
6	$\frac{7}{16} \times \frac{7}{32}$	*	*	*	1 doz.	1 lb., 12 oz.
8	$\frac{9}{16} \times \frac{9}{32}$	*	*	*	1 doz.	3 lbs., 11 oz.
10	$2\frac{1}{32} \times 1\frac{1}{32}$	*	*	*	1 doz.	6 lbs., 10 oz.
12	$2\frac{5}{32} \times 1\frac{3}{32}$	*	—	—	$\frac{1}{2}$ doz.	11 lbs., 5 oz.
14	$2\frac{9}{32} \times 1\frac{5}{32}$	*	—	—	$\frac{1}{2}$ doz.	17 lbs., 14 oz.

*Indicates Cuts Available.

Pillar Files have a rectangular cross section. They are like Hand files in general shape but are narrower. They have one edge safe or uncut. Used mostly by machinists for filing slots and keyways. Grading of cuts according to coarseness is same as that of Square File.

PLANER KNIFE FILES



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$2\frac{5}{32} \times \frac{9}{64}$	1 doz.	2 lbs., 9 oz.
10	$3\frac{1}{32} \times 1\frac{1}{64}$	1 doz.	5 lbs., 2 oz.

Made in Grade A Brands only.

For sharpening planer knives. One-half of each side is single cut; and one-half is double cut. Safe edges.

PLASTIC FILES

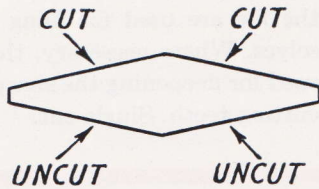
Because the uses of plastics are rapidly growing and changing, we prefer to have a job description from the customer before recommending specific files. Our files are supplied in all regular types and sizes specially sharp-

ened for use on Hard Plastics. For Soft Plastics, we recommend our Shear Tooth Files. Milled Tooth Files and certain coarser cuts in Regular Purpose Files.

PRUNING SAW FILES



Pruning Saw Files are especially designed for use on Needle Point Pruning Saws. Made on diamond-shaped blanks 6" long. Single cut on two faces of one side and on both edges. Other side uncut.



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$2\frac{9}{32} \times 1\frac{1}{64}$	1 doz.	3 lbs. 2 oz.

Made in Grade A Brands only.

Pruning Saw File Cross Section

ROTARY MOWER FILE



The first file designed for sharpening Rotary mower blades. Sharpens them to knife-like edge and smooths nicks that tear grass. Maintains blade balance for smooth efficiency. File comes in its own durable plastic envelope, hangs conveniently (well protected) in garden tool shed.

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
10	$\frac{3}{4} \times \frac{9}{64}$	12	4 lbs., 8 oz.

Made in Grade A Brands only.

ROUND FILES



Principal use is to file circular openings or concave surfaces. Bastard cut files 6" and longer are double cut. Second cut files 12" and longer, double cut. All others are single cut. Tapered slightly towards point.

Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
4	$\frac{5}{32}$	*	*	*	1 doz.	4 oz.
6	$\frac{1}{4}$	*	*	*	1 doz.	14 oz.
7	$1\frac{1}{64}$	*	—	—	1 doz.	1 lb., 2 oz.
8	$\frac{5}{16}$	*	*	*	1 doz.	1 lb., 6 oz.
10	$\frac{3}{8}$	*	*	*	1 doz.	3 lbs., 3 oz.
12	$\frac{1}{2}$	*	*	*	$\frac{1}{2}$ doz.	6 lbs., 13 oz.
14	$\frac{5}{8}$	*	*	*	$\frac{1}{2}$ doz.	11 lbs., 15 oz.
16	$\frac{3}{4}$	*	—	—	$\frac{1}{2}$ doz.	19 lbs., 4 oz.

*Indicates Cuts Available.

SECTOR FILES



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$\frac{9}{16} \times 1\frac{1}{4} \times \frac{1}{32}$	1 doz.	1 lb., 4 oz.

Made in Grade A Brands only.

Sector Files are made especially for Bushman Type Saws. Round back of file is suitable for deepening the rounded gullets between the series of the cutting teeth, while the sides of the file are used for filing the teeth themselves. Where necessary, the narrow edge is used for deepening the sharp gullets between cutting teeth. Single cut.

SHEAR TOOTH FILES — FLAT



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$\frac{5}{8} \times \frac{5}{32}$	1 doz.	1 lb., 9 oz.
8	$2\frac{5}{32} \times \frac{7}{32}$	1 doz.	3 lbs., 12 oz.
10	$3\frac{1}{32} \times \frac{1}{4}$	$\frac{1}{2}$ doz.	7 lbs., 3 oz.
12	$1\frac{5}{32} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	11 lbs., 4 oz.
14	$1\frac{11}{32} \times \frac{5}{16}$	$\frac{1}{2}$ doz.	16 lbs., 1 oz.

Made in Grade A Brands only.

Shear Tooth Files are single cut and designed for aluminum, copper, brass and similar metals. They remove metal rapidly, although not as quickly as a Brass File. Since they are single cut, however, they leave a smoother finish. Made in Flat and Half Round shapes.

One cut only.

SHEAR TOOTH FILES — HALF ROUND



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
6	$1\frac{9}{32} \times \frac{5}{32}$	1 doz.	1 lb., 7 oz.
8	$\frac{3}{4} \times \frac{7}{32}$	1 doz.	3 lbs., 5 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	6 lbs., 1 oz.
12	$1\frac{1}{8} \times 1\frac{1}{32}$	$\frac{1}{2}$ doz.	10 lbs., 7 oz.
14	$1\frac{9}{32} \times 1\frac{3}{32}$	$\frac{1}{2}$ doz.	16 lbs.

Made in Grade A Brands only.

One cut only.

SQUARE FILES



For filing slots, keyways and general surface filing. Larger sizes frequently preferred to corresponding Flat Files because of heavier section and four filing surfaces. Tapered slightly towards point. Double Cut.

Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
4	$\frac{5}{32}$	*	*	*	1 doz.	4 oz.
6	$\frac{1}{4}$	*	*	*	1 doz.	1 lb., 1 oz.
8	$\frac{5}{16}$	*	*	*	1 doz.	1 lb., 15 oz.
10	$\frac{3}{8}$	*	*	*	1 doz.	3 lbs., 14 oz.
12	$\frac{1}{2}$	*	*	*	$\frac{1}{2}$ doz.	8 lbs., 6 oz.
14	$\frac{5}{8}$	*	*	*	$\frac{1}{2}$ doz.	15 lbs., 6 oz.
16	$\frac{3}{4}$	*	—	—	$\frac{1}{2}$ doz.	25 lbs., 6 oz.

*Indicates Cuts Available.

STAINLESS STEEL FILES

Nicholson File Company now makes files especially for use on Stainless Steel. These files are made in all types and sizes as our regular purpose files, both in American Pattern and Swiss Pattern. The construction of the teeth on files for Stainless Steel is designed to resist the wearing action of these

tough dense steels on the file's cutting edges. To order, specify type, size and cut and add "for Stainless Steel" to your specification. Words "Stainless Steel" are stamped on the tang for identification. (*Made in Grade A Brands only.*)

TAPER (TRIANGULAR) SAW FILES

Number of Points	Files Recommended
5	7" Taper Regular
5½	7" Taper Regular
6	7" or 8" Slim
7	6" or 7" Slim
8	6" Slim
	7" Extra Slim
	8" Double Extra Slim
9	6" Extra Slim
	7" Double Extra Slim
10	5" or 6" Extra Slim
11	5" Extra Slim
	6" Double Extra Slim
12	5" Extra Slim
13, 14	5" Double Extra Slim
15, 16	4" Double Extra Slim

Triangular Saw Files are made for filing all types of Saw Files with 60° angle teeth. Single cut. Edges set and cut for filing gullets between saw teeth.

In filing handsaws, it is important to select the right file. In general, the table on the left lists the suggested size and type of file that will give the best results.

TAPER FILES — REGULAR



Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
6	15/32	1 doz.	2 lbs.
7	17/32	1 doz.	2 lbs., 15 oz.
8	19/32	1 doz.	4 lbs., 5 oz.
10	23/32	1 doz.	7 lbs., 12 oz.

TAPER FILES — SLIM



Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
4	7/32	1 doz.	6 oz.
5	1/4	1 doz.	9 oz.
6	11/32	1 doz.	1 lb., 1 oz.
7	13/32	1 doz.	1 lb., 11 oz.
8	15/32	1 doz.	2 lbs., 10 oz.
10	5/8	1 doz.	5 lbs., 3 oz.

TAPER FILES — EXTRA SLIM



Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
4	$\frac{3}{16}$	1 doz.	4 oz.
5	$\frac{15}{64}$	1 doz.	6 oz.
$5\frac{1}{2}$	$\frac{1}{4}$	1 doz.	8 oz.
6	$\frac{9}{32}$	1 doz.	11 oz.
7	$\frac{5}{16}$	1 doz.	1 lb., 3 oz.
8	$\frac{13}{32}$	1 doz.	1 lb., 14 oz.

TAPER FILES — DOUBLE EXTRA SLIM



Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
4	$\frac{5}{32}$	1 doz.	3 oz.
5	$\frac{3}{16}$	1 doz.	5 oz.
6	$\frac{7}{32}$	1 doz.	9 oz.
7	$\frac{1}{4}$	1 doz.	10 oz.
8	$\frac{5}{16}$	1 doz.	1 lb., 1 oz.
*8 x $\frac{3}{16}$	$\frac{3}{16}$	1 doz.	8 oz.
*8 x $\frac{1}{4}$	$\frac{1}{4}$	1 doz.	13 oz.

*These two items must be ordered as "8 x $\frac{3}{16}$ double extra slim" or "8 x $\frac{1}{4}$ double extra slim;" otherwise the regular 8" double extra slim which is $\frac{5}{16}$ " will be furnished.

TAPER FILES — IMPROVED



Improved Taper Files are parallel in shape and have a specially shaped point to facilitate holding the file in the machine. Single cut on sides and edges. Regularly available in two sizes only.

Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
6 x $\frac{5}{8}$	$\frac{5}{8}$	1 doz.	4 lbs.
6 x $\frac{3}{4}$	$\frac{3}{4}$	1 doz.	5 lbs., 10 oz.

TAPER FILES — DOUBLE CUT SAW FILES (M. F.)



TAPER DOUBLE CUT M.F.

Length Inches	Approx. Width Inches	Number in Box	Approx. Weight Per Doz.
6	$1\frac{5}{32}$	1 doz.	2 lbs.
7	$1\frac{7}{32}$	1 doz.	2 lbs., 15 oz.

Designed and recommended primarily for use in Saw Filing machines.

TAPER SLIM DOUBLE CUT M.F.

6	$1\frac{1}{32}$	1 doz.	1 lb., 1 oz.
7	$1\frac{3}{32}$	1 doz.	1 lb., 11 oz.
8	$1\frac{5}{32}$	1 doz.	2 lbs., 10 oz.

TAPER EXTRA SLIM DOUBLE CUT M.F.

6	$\frac{9}{32}$	1 doz.	11 oz.
7	$\frac{5}{16}$	1 doz.	1 lb., 3 oz.
8	$1\frac{3}{32}$	1 doz.	1 lb., 14 oz.

TAPER DOUBLE EXTRA SLIM DOUBLE CUT M.F.

6	$\frac{7}{32}$	1 doz.	9 oz.
7	$\frac{1}{4}$	1 doz.	10 oz.
8	$\frac{5}{16}$	1 doz.	1 lb., 1 oz.

Made in Grade A Brands only.

TESTING FILES —MILL



Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
8	$\frac{25}{32} \times \frac{9}{64}$	*	1 doz.	2 lbs., 14 oz.
10	$\frac{31}{32} \times \frac{11}{64}$	*	1 doz.	5 lbs., 4 oz.
12	$1 \frac{5}{32} \times \frac{7}{32}$	*	1 doz.	9 lbs., 1 oz.

These files are tested to bite steel of C-61 Rockwell hardness. They are not made for filing stock, but for *testing only*. Customer should state preference for oil or dry finish, either of which is available.

*Indicates Cuts Available. Made in Grade A Brands only.

THREE SQUARE FILES



Three Square Files are triangular in cross section, like Tapers, but are double cut and have fairly sharp corners that are slightly set and cut. These files are for general use by machinists for filing internal angles more acute than the right angle, for clearing out square corners and filing taps and cutters. Grading of cuts according to coarseness is same as Square File.

Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
6	$1\frac{5}{32}$	*	*	*	1 doz.	1 lb., 13 oz.
8	$\frac{5}{8}$	*	*	*	1 doz.	4 lbs., 4 oz.
10	$\frac{3}{4}$	*	*	*	1 doz.	7 lbs., 8 oz.
12	$2\frac{7}{32}$	*	—	—	$\frac{1}{2}$ doz.	12 lbs., 15 oz.

*Indicates Cuts Available.

WARDING FILES



Warding Files are rectangular in section and used principally by locksmiths in repairing or filing ward notches in keys. Also suited for use in narrow spaces where other files will not fit. All double cut on sides, single cut on edges.

Length Inches	Approx. Size Inches	Bastard	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
4	$1\frac{5}{32} \times \frac{3}{64}$	*	*	*	1 doz.	5 oz.
6	$\frac{5}{8} \times \frac{5}{64}$	*	*	*	1 doz.	15 oz.
8	$2\frac{5}{32} \times \frac{3}{32}$	*	*	*	1 doz.	1 lb., 10 oz.
10	$1\frac{5}{16} \times \frac{1}{8}$	*	*	*	1 doz.	2 lbs., 15 oz.
12	$1\frac{7}{64} \times \frac{5}{64}$	*	—	—	$\frac{1}{2}$ doz.	4 lbs., 15 oz.

*Indicates Cuts Available.

WEB SAW FILES



Web Saw Files are for filing pulpwood or Web Saws. Because of their shape, they are specially suited for filing saws having cutting teeth of less than 60° angle or wherever it is desired to file each bevel of the tooth separately.

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
5	$2\frac{5}{32} \times 1\frac{5}{64}$	1 doz.	2 lbs.
$5\frac{1}{2}$	$2\frac{7}{32} \times \frac{1}{4}$	1 doz.	2 lbs., 8 oz.
6	$2\frac{9}{32} \times 1\frac{7}{64}$	1 doz.	3 lbs.

Made in Grade A Brands only.

WEED'S SPECIAL FILES



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
5	$\frac{7}{32}$	1 doz.	12 oz.
$5\frac{1}{2}$	$\frac{7}{32}$	1 doz.	13 oz.
6	$\frac{9}{32}$	1 doz.	1 lb., 1 oz.

Weed's Special Files are blunt and single cut. Edges set and cut to file the gullets between saw teeth. They are designed for saw filers who prefer a parallel file rather than a tapered file. Four handles are furnished in each box of one dozen files.

Made only in Arcade Brand.

WOOD FILES — FLAT



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$2\frac{5}{32} \times \frac{7}{32}$	1 doz.	3 lbs., 12 oz.
10	$3\frac{1}{32} \times \frac{1}{4}$	$\frac{1}{2}$ doz.	7 lbs., 3 oz.
12	$1 \frac{5}{32} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	11 lbs., 4 oz.
14	$1\frac{1}{32} \times \frac{5}{16}$	$\frac{1}{2}$ doz.	16 lbs., 1 oz.

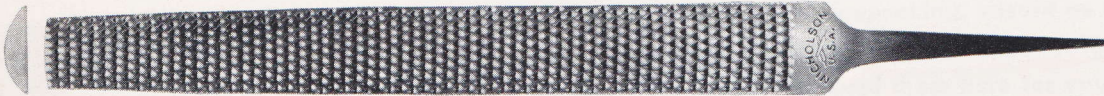
Wood Files are made in the same sections and sizes as Flat and Half Round Files. However, they have especially coarse teeth, fitting them for use on wood.

WOOD FILES — HALF ROUND



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$\frac{3}{4} \times \frac{7}{32}$	1 doz.	3 lbs., 5 oz.
10	$1\frac{5}{16} \times \frac{9}{32}$	$\frac{1}{2}$ doz.	6 lbs., 1 oz.
12	$1 \frac{1}{8} \times 1\frac{1}{32}$	$\frac{1}{2}$ doz.	10 lbs., 7 oz.
14	$1 \frac{9}{32} \times 1\frac{1}{32}$	$\frac{1}{2}$ doz.	16 lbs.

CABINET RASPS

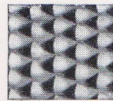


THE FOLLOWING ILLUSTRATIONS SHOW THE ACTUAL COARSENESS OF CABINET RASPS

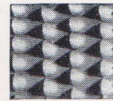
SECOND CUT



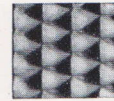
6"



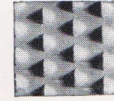
8"



10"



12"

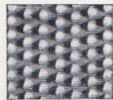


14"

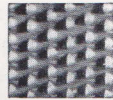
SMOOTH



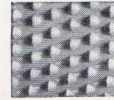
6"



8"



10"



12"



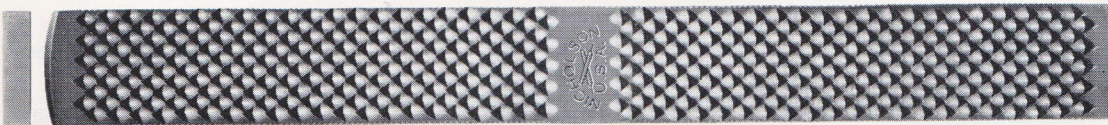
14"

Cabinet Rasps are for use by cabinetmakers and woodworkers. The curved side of these rasps is similar to that of Half Round Rasps but has a larger radius. Single cut on edges. See page 18 for Cabinet Files.

Length Inches	Approx. Size Inches	Second Cut	Smooth	No. In Box	Approx. Weight Per Doz.
6	$1\frac{1}{16} \times \frac{3}{16}$	*	—	1 doz.	1 lb., 6 oz.
8	$2\frac{9}{32} \times \frac{1}{4}$	*	*	1 doz.	2 lbs., 15 oz.
10	$1\frac{1}{8} \times \frac{9}{32}$	*	*	$\frac{1}{2}$ doz.	5 lbs., 7 oz.
12	$1\frac{1}{32} \times 1\frac{1}{32}$	*	*	$\frac{1}{2}$ doz.	9 lbs., 3 oz.
14	$1\frac{9}{16} \times \frac{3}{8}$	*	—	$\frac{1}{2}$ doz.	14 lbs.

*Indicates Cuts Available.

HORSE RASPS — PLAIN $\frac{1}{2}$ File



Horse Rasps are made in two different types — Plain and Tanged. Plain Horse Rasps are double ended. They have Rasp Teeth on one side and File Teeth on the other. Made in Regular and Slim Patterns. Single cut on edges.

REGULAR

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
12	$1\frac{5}{16} \times 1\frac{1}{32}$	$\frac{1}{2}$ doz.	13 lbs., 9 oz.
14	$1\frac{1}{2} \times \frac{3}{8}$	$\frac{1}{2}$ doz.	19 lbs., 10 oz.
16	$1\frac{23}{32} \times \frac{7}{16}$	$\frac{1}{2}$ doz.	27 lbs., 14 oz.

SLIM

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
16	$1\frac{1}{2} \times 1\frac{13}{32}$	$\frac{1}{2}$ doz.	22 lbs., 4 oz.
18	$1\frac{9}{16} \times 1\frac{13}{32}$	$\frac{1}{2}$ doz.	27 lbs., 5 oz.

HORSE RASPS — TANGED



REGULAR

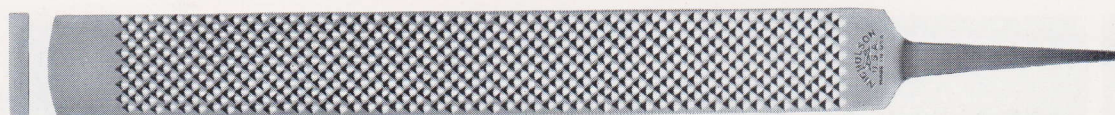
Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
14	1 $\frac{3}{4}$ x $\frac{7}{16}$	$\frac{1}{2}$ doz.	26 lbs., 4 oz.
16	1 $\frac{7}{8}$ x $1\frac{5}{32}$	$\frac{1}{2}$ doz.	35 lbs., 9 oz.

THIN

14	1 $\frac{3}{4}$ x $1\frac{1}{32}$	$\frac{1}{2}$ doz.	19 lbs., 13 oz.
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Tanged Horse Rasps are the same as Plain Horse Rasps in tooth construction. They have the Rasp Teeth on one side and File Teeth on the other. Made in Regular and Thin Patterns. Single cut on edges.

HORSE RASPS — TANGED — PLATERS SPECIAL



PLATERS SPECIAL EXTRA THIN

Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
14	1 $\frac{11}{16}$ x $\frac{5}{16}$	$\frac{1}{2}$ doz.	19 lbs.

PLATERS SPECIAL DOUBLE EXTRA THIN

14	1 $\frac{11}{16}$ x $\frac{9}{32}$	$\frac{1}{2}$ doz.	16 lbs.
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Platers Special Horse Rasps have rasp teeth on one side with file teeth on opposite side. Both sides are safe $\frac{1}{8}$ " at point. Rasp cut is six teeth per row. (All other Horse Rasps have five teeth per row). Primarily for race track horses or others using light shoes, Platers Special Horse Rasps are sharper than regular Horse Rasps.

LAST AND PATTERN MAKERS RASPS AND FILES

Last Makers Files, strictly speaking, should be included in the file section of this catalog. They are, however, so closely related to Last Makers Rasps, that we have placed them here for your convenience.

Last and Pattern Makers Cabinet Rasps and Files are used by shoe last and pattern makers and for other wood filing where a smooth finish is desired; for example, in the manufacture of wooden golf club heads. Last

Makers Rasps and Files have uncut edges. Pattern Makers Rasps have cut edges. All these Rasps and Files have numbers on the tangs for convenience when re-ordering.

LAST MAKERS FILES



(UNCUT EDGES)

No.	Size and Kind
23—10"	Last Makers Cabinet Files—Bastard, Med. Point
27—10"	Last Makers Cabinet Files—2nd Cut, Nar. Point
28—10"	Last Makers Cabinet Files—Smooth, Nar. Point
30—12"	Flat 2nd Cut Thin
31—12"	Double End Toe Makers Files—2nd Cut, 1/2 File
32—12"	Double End Toe Makers Files—2nd Cut, All File

Made in Nicholson Brands only.

LAST MAKERS CABINET RASPS



(UNCUT EDGES)

No.	Size and Kind
1—8"	Last Makers Cabinet Rasps—2nd Cut.
3—10"	Last Makers Cabinet Rasps—2nd Cut, Wide Point
4—10"	Last Makers Cabinet Rasps—Smooth, Wide Point
6—10"	Last Makers Cabinet Rasps—2nd Cut, Med. Point
7—10"	Last Makers Cabinet Rasps—Smooth, Med. Point
9—10"	Last Makers Cabinet Rasps—2nd Cut, Nar. Point
10—10"	Last Makers Cabinet Rasps—Smooth, Nar. Point

Made in Nicholson Brands only.

PATTERN MAKERS CABINET RASPS



(CUT EDGES)

No.	Size and Kind
40— 6"	Pattern Makers Cabinet Rasps—2nd Cut
41— 8"	Pattern Makers Cabinet Rasps—2nd Cut
43—10"	Pattern Makers Cabinet Rasps—2nd Cut, Wide Pt.
44—10"	Pattern Makers Cabinet Rasps—Smooth, Wide Pt.
46—10"	Pattern Makers Cabinet Rasps—2nd Cut, Med. Pt.
47—10"	Pattern Makers Cabinet Rasps—Smooth, Med. Pt.
49—10"	Pattern Makers Cabinet Rasps—2nd Cut, Nar. Pt.
50—10"	Pattern Makers Cabinet Rasps—Smooth, Nar. Pt.
52—12"	Pattern Makers Cabinet Rasps—2nd Cut, Wide Pt.
53—12"	Pattern Makers Cabinet Rasps—Smooth, Wide Pt.
54— 8"x $\frac{1}{2}$ "	Pattern Makers Half Round Rasps—2nd Cut
55—10"x $\frac{3}{4}$ "	Pattern Makers Half Round Rasps—2nd Cut

Made in Nicholson Brand only.

4-IN-HAND (Formerly Shoe Rasp)



Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
8	$\frac{7}{8}$ x $\frac{9}{32}$	$\frac{1}{2}$ doz.	4 lbs., 2 oz.
9	$3\frac{1}{32}$ x $\frac{5}{16}$	$\frac{1}{2}$ doz.	5 lbs., 10 oz.
10	1 $\frac{1}{16}$ x $1\frac{1}{32}$	$\frac{1}{2}$ doz.	7 lbs., 12 oz.

This versatile tool is really four files in one—with a file section and a rasp section on the flat side; and a file section and a rasp section on the half round side. Every homeowner, garage man, boat builder and mechanic needs one.

WOOD RASPS — FLAT



Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
8	$2\frac{5}{32}$ x $\frac{9}{32}$	*	1 doz.	3 lbs., 14 oz.
10	$3\frac{1}{32}$ x $1\frac{1}{32}$	*	$\frac{1}{2}$ doz.	7 lbs., 8 oz.
12	1 $\frac{9}{32}$ x $1\frac{1}{32}$	*	$\frac{1}{2}$ doz.	11 lbs., 8 oz.
14	1 $\frac{11}{32}$ x $1\frac{1}{32}$	*	$\frac{1}{2}$ doz.	18 lbs., 6 oz.

Wood Rasps are used by woodworkers, wheelwrights and plumbers. The coarseness of teeth is the same on Flat and Half Round Wood Rasps of the same size. Single cut on edges.

WOOD RASPS — HALF ROUND



Length Inches	Approx. Size Inches	Bastard Cut	Smooth	Number In Box	Approx. Weight Per Doz.
6	1 ⁹ / ₃₂ x 1/4	*	—	1 doz.	1 lb., 8 oz.
8	2 ⁵ / ₃₂ x 5/16	*	*	1 doz.	3 lbs., 7 oz.
10	3 ¹ / ₃₂ x 3/8	*	*	1/2 doz.	6 lbs., 8 oz.
12	1 5/32 x 7/16	*	*	1/2 doz.	11 lbs.
14	1 ¹¹ / ₃₂ x 1/2	*	—	1/2 doz.	16 lbs.
16	1 ¹⁷ / ₃₂ x 3/4	*	—	1/2 doz.	23 lbs., 12 oz.

*Indicates Cuts Available.

WOOD RASPS — ROUND



Round Wood Rasps are used for the same purposes as Regular Wood Rasps in places for which their shapes make them particularly effective. Made from steel of the same size as Round Files.

Length Inches	Approx. Size Inches	Bastard Cut	Number in Box	Approx. Weight Per Doz.
6	1/4	*	1 doz.	15 oz.
8	5/16	*	1 doz.	1 lb., 10 oz.
10	3/8	*	1 doz.	3 lbs., 4 oz.
12	1/2	*	1/2 doz.	7 lbs.
14	5/8	*	1/2 doz.	12 lbs., 1 oz.

*Indicates Cuts Available.

X.F. FILES—SWISS PATTERN

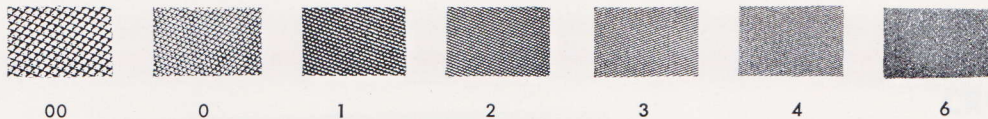
Nicholson X.F. Swiss Pattern Files are made to more exacting measurements than American Pattern Files. Although some cross sections of both types are similar, the shapes differ. The points of X.F. Swiss Pattern Files are smaller and the tapered files have longer tapers than those of American Pattern Files. Nicholson X.F. Swiss Pattern Files are made in much finer cuts, which vary from No. 00, which is the coarsest, to No. 6, the finest.

Our X.F. Swiss Pattern Files are primarily finishing tools, used for removing burrs left over from previous finishing operations, rounding out slots and cleaning out square

corners, smoothing up small parts and in fact, doing the final finishing on all sorts of delicate and intricate pieces. The smaller points of these files make them useful for enlarging small holes and shaping and finishing very narrow grooves, slots, notches and keyways.

X.F. Swiss Pattern Files are used by tool and die makers, delicate instrument parts finishers, jewelers, model makers and home craftsmen. In short, everyone who does superfine precision filing will have many uses for X.F. Swiss Pattern Files.

ACTUAL COARSENESS OF 6" HAND FILES—CUTS Nos. 00 TO 6



BARRETTE FILES



Barrette Files are flat on one side. The backs are beveled on the edges as indicated by the cross section. The included angle being 33 degrees. (The beveled back of the 3-inch length, however, is ground to a point). The wide flat sides are double cut. Back and beveled edges are "safe" or uncut.

Length Inches	Approx. Size Inches	Cut Nos.					Number in Box	Approx. Weight Per Doz.
		00	0	1	2	4		
3	$\frac{3}{8}$	00	0	1	2	4	1 doz.	3 oz.
4	$\frac{1}{2}$	00	0	1	2	4	1 doz.	9 oz.
6	$1\frac{1}{16}$	00	0	1	2	4	1 doz.	1 lb., 5 oz.
8	$\frac{7}{8}$	00	0	—	2	4	1 doz.	2 lbs., 14 oz.

3 1/4" BENCH FILING MACHINE FILES

Shape	Approx. Size, Inches		Approx. Weight, Per Doz.	
	1/4" Round Shank	1/8" Round Shank	1/4" Round Shank	1/8" Round Shank
Round	1/4	9/64	10 oz.	3 oz.
Half Round	1/4 x 1 1/4	13/64 x 3/32	8 oz.	3 oz.
Pillar	7/32 x 1/8	13/64 x 5/64	7 oz.	3 oz.
Oval	5/16 x 5/32	3/16 x 7/64	8 oz.	3 oz.
Knife	1/4 x 1/8	15/64 x 3/32	6 oz.	3 oz.
Square	3/16	7/64	8 oz.	3 oz.
Three Square	7/32	5/32	7 oz.	3 oz.
Crochet	1/4 x 1/8	13/64 x 5/64	8 oz.	3 oz.
Equaling	7/32 x 1/8	13/64 x 5/64	7 oz.	3 oz.
Pippin	19/64 x 5/32	7/32 x 7/64	8 oz.	3 oz.
Lozenge	15/64 x 9/64	7/32 x 7/64	6 oz.	3 oz.
Cant	15/64 x 7/64	17/64 x 3/32	6 oz.	3 oz.

Bench Filing Machine Files are designed for use in machines for filing dies and patterns. Direction of cutting stroke is towards the shank. They are 3 1/4 inches over-all and have 1/8-inch or 1/4-inch round shanks. Made in twelve different shapes as illustrated. When purchased in assorted sets these files are supplied in orange and blue plastic boxes, which act as bench stands and protective containers. See illustration of box on page 50.

3 1/4" x 1/4"

3 1/4" x 1/8"

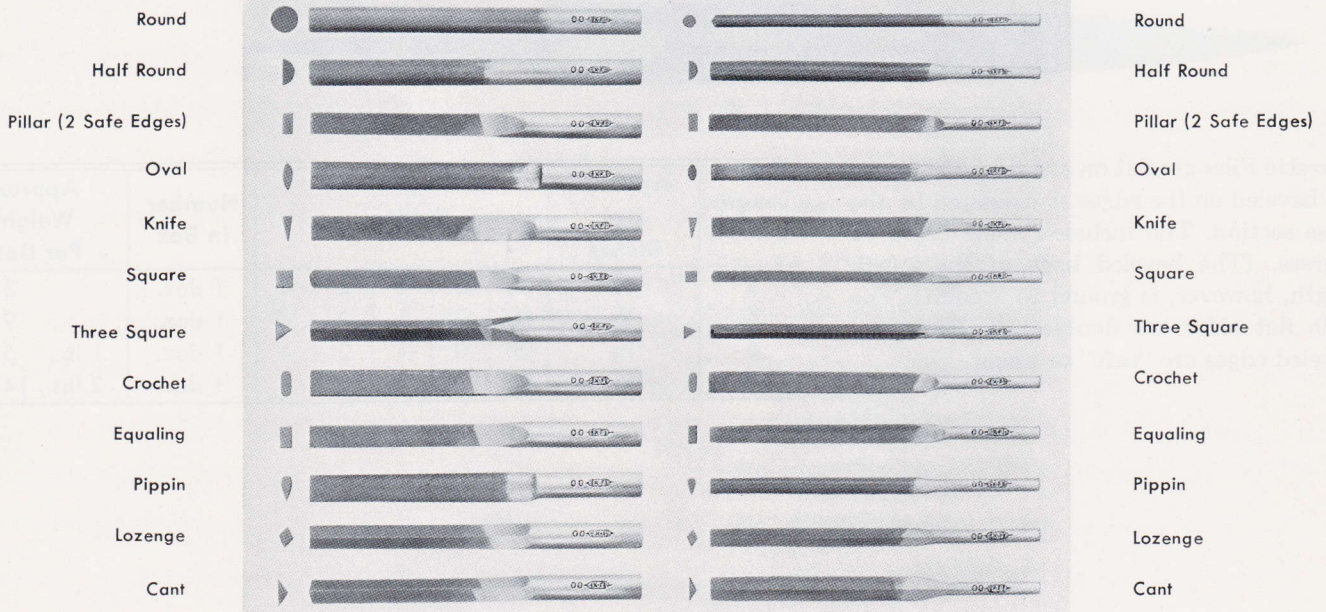
Packed one dozen in box.

Cuts 00 and 2

ILLUSTRATIONS OF ABOVE SHAPES

1/4" ROUND SHANK

1/8" ROUND SHANK



3" BROACH FILES

Broach Files are made in round section, parallel throughout their length. Made in one length only, 3 inches over-all and in one cut which is approximately the same as the cut on a 3-inch Round File No. 0. Number in Box, 1 Doz.; Approx. Weight per Doz., 1 oz.

Gauge	Diam.							Gauge	Diam.
65	.035"	•	—	•	—	•	—	52	.0635"
64	.036"	•	—	•	—	•	—	51	.067"
63	.037"	•	—	•	—	•	—	50	.070"
62	.038"	•	—	•	—	•	—	49	.073"
61	.039"	•	—	•	—	•	—	48	.076"
60	.040"	•	—	•	—	•	—	47	.0785"
59	.041"	•	—	•	—	•	—	46	.081"
58	.042"	•	—	•	—	•	—	45	.082"
57	.043"	•	—	•	—	•	—	44	.086"
56	.0465"	•	—	•	—	•	—	43	.089"
55	.052"	•	—	•	—	•	—	42	.0935"
54	.055"	•	—	•	—	•	—	41	.096"
53	.0595"	•	—	•	—	•	—	40	.098"

CROCHET FILES

Crochet Files are flat with two well-rounded edges. They taper in both width and thickness. Double cut on flat sides and both edges.

Length Inches	Approx. Size Inches	Cut Nos.						Number in Box	Approx. Weight Per Doz.
3	1 $\frac{1}{4}$ x $\frac{5}{16}$	00	0	—	2	—	—	1 doz.	4 oz.
4	$\frac{3}{8}$ x $\frac{3}{32}$	00	0	—	2	4	—	1 doz.	7 oz.
6	3 $\frac{1}{4}$ x $\frac{1}{8}$	00	0	1	2	4	—	1 doz.	1 lb., 1 oz.
8	1 $\frac{1}{16}$ x $\frac{5}{32}$	00	0	1	2	—	—	1 doz.	2 lbs., 7 oz.
10	1 $\frac{3}{16}$ x $\frac{3}{16}$	00	0	—	2	—	—	1 doz.	4 lbs.

CROSSING FILES

Crossing Files are made of double circular section, one side having the same radius as the Half Round File; the other side having a flatter curve or larger radius. Crossing Files taper to a point in both width and thickness. Double cut on both sides.

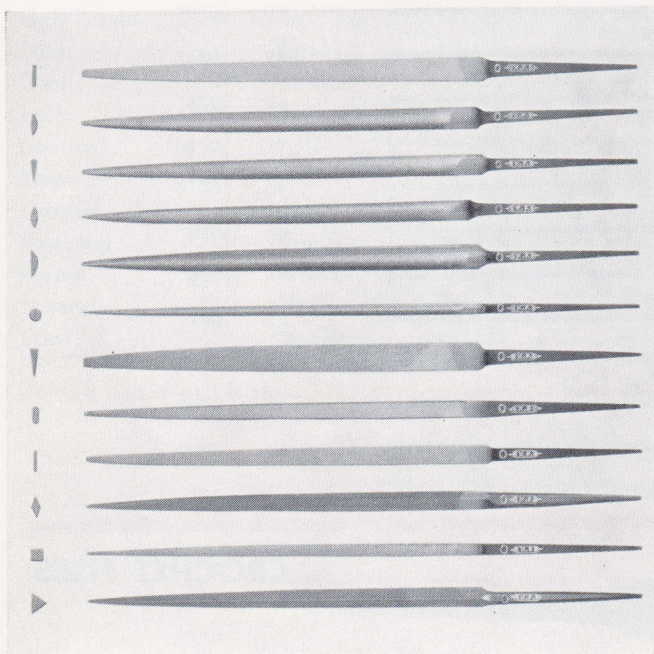
Length Inches	Approx. Size Inches	Cut Nos.								Number in Box	Approx. Weight Per Doz.
3	1 $\frac{1}{4}$ x $\frac{7}{64}$	00	0	—	2	—	4	—	—	1 doz.	4 oz.
4	$\frac{7}{16}$ x $\frac{1}{8}$	00	0	1	2	—	4	—	—	1 doz.	10 oz.
6	$\frac{5}{8}$ x $\frac{3}{16}$	00	0	1	2	3	4	6	—	1 doz.	1 lb., 14 oz.
8	1 $\frac{3}{32}$ x $\frac{1}{4}$	00	0	1	2	—	4	—	—	$\frac{1}{2}$ doz.	4 lbs.
10	3 $\frac{1}{32}$ x $\frac{9}{32}$	—	0	—	2	—	—	—	—	$\frac{1}{2}$ doz.	6 lbs., 2 oz.

3 1/2" DIE SINKERS FILES

Die Sinkers Files are designed for use by die sinkers in dressing and finishing dies of all kinds. They are made in twelve shapes as illustrated.

Assorted sets of these files are now supplied in plastic boxes of style illustrated on page 50.

Made in Cuts Nos. 0 and 2.



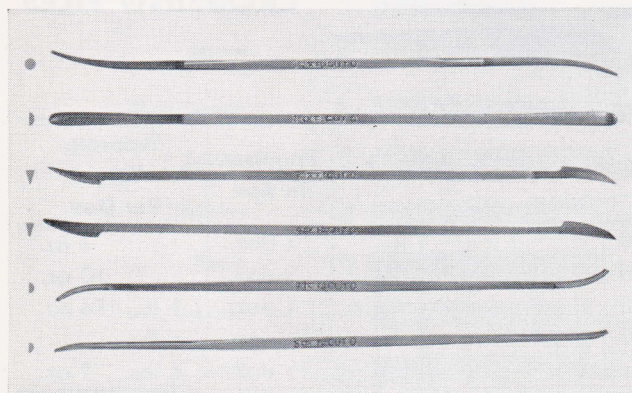
Shape	Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
Flat.....	3 1/2	1 5/64 x 5/64	1 doz.	4 oz.
Auriform.....	3 1/2	7/32 x 7/64	1 doz.	4 oz.
Oval (1 Sharp Edge).....	3 1/2	7/32 x 7/64	1 doz.	4 oz.
Oval.....	3 1/2	7/32 x 7/64	1 doz.	4 oz.
Half Round.....	3 1/2	1/4 x 3/32	1 doz.	5 oz.
Round.....	3 1/2	1/8	1 doz.	3 oz.
Knife.....	3 1/2	9/32 x 5/64 x 1/64	1 doz.	3 oz.
Flat (2 Round Edges) (Crochet).....	3 1/2	3/16 x 5/64	1 doz.	3 oz.
Flat (1 Safe Edge).....	3 1/2	3/16 x 5/64	1 doz.	4 oz.
Lozenge.....	3 1/2	13/64 x 5/32	1 doz.	4 oz.
Square.....	3 1/2	1/8	1 doz.	5 oz.
Three Square.....	3 1/2	13/64	1 doz.	4 oz.

6 1/2" DIE SINKERS RIFFLERS

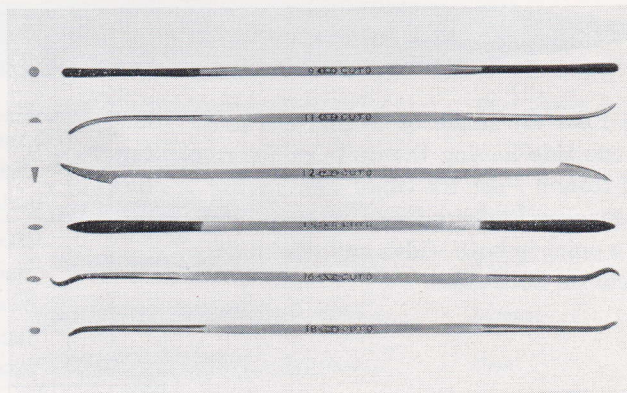
Length Inches	Approximate Weight 1 Dozen
6 1/2	6 oz.

Made in Cuts Nos. 0, 2 and 4.

Die Sinkers Rifflers are made in 6 1/2-inch length and in cuts Nos. 0, 2 and 4. Made in shapes as illustrated. Each riffler identified by number. Rifflers may be purchased in an assortment of one each of these 12 shapes or in any quantity of each shape.



No. 1
No. 4
No. 5
No. 6
No. 7
No. 8



No. 9
No. 11
No. 12
No. 15
No. 16
No. 18

EQUALING FILES



Equaling Files are parallel in both width and thickness for their entire length. Double cut on the two sides and single cut on both edges.

Length Inches	Approx. Size Inches	Cut Nos.				Number in Box	Approx. Weight Per Doz.
3	$\frac{5}{16} \times \frac{1}{16}$	00	0	2	4	1 doz.	4 oz.
4	$\frac{13}{32} \times \frac{5}{64}$	00	0	2	4	1 doz.	8 oz.
6	$\frac{19}{32} \times \frac{7}{64}$	00	0	2	4	1 doz.	1 lb., 5 oz.
8	$\frac{3}{4} \times \frac{9}{64}$	00	0	2	4	1 doz.	3 lbs., 5 oz.

Equaling Files may also be obtained in the following B & S gauges and in Cut Nos. as shown below.

4"—16 B&S gauge (.051") 0, 2, 4.	6"—12 B&S gauge (.081") 0, 2, 4.
4"—18 B&S gauge (.040") 0, 2, 4.	6"—14 B&S gauge (.064") 0, 2, 4.
4"—20 B&S gauge (.032") 0, 2, 4.	8"—10 B&S gauge (.102") 0, 2, 4.

HALF ROUND FILES



Half Round Files taper in thickness and width to a point. Double cut on both flat and half round sides.

Length Inches	Approx. Size Inches	Cut Nos.								Number in Box	Approx. Weight Per Doz.
3	$\frac{9}{32} \times \frac{3}{32}$	00	0	1	2	3	4	—	—	1 doz.	4 oz.
4	$\frac{3}{8} \times \frac{7}{16}$	00	0	1	2	3	4	—	—	1 doz.	8 oz.
5	$\frac{7}{16} \times \frac{7}{64}$	00	0	1	2	3	4	—	—	1 doz.	12 oz.
6	$\frac{17}{32} \times \frac{9}{64}$	00	0	1	2	3	4	6	—	1 doz.	1 lb., 9 oz.
8	$\frac{45}{64} \times \frac{3}{16}$	00	0	1	2	3	4	—	—	$\frac{1}{2}$ doz.	2 lbs., 11 oz.
10	$\frac{15}{16} \times \frac{17}{64}$	00	0	1	2	3	4	—	—	$\frac{1}{2}$ doz.	6 lbs., 3 oz.
12	$1\frac{7}{64} \times 2\frac{1}{64}$	00	0	—	2	—	—	—	—	$\frac{1}{2}$ doz.	9 lbs., 8 oz.

HALF ROUND RING FILES



For use by jewelers, particularly ring manufacturers. The Half Round Ring File is narrower for its length than the 6" X.F. Swiss Pattern Half Round File.

Length Inches	Approx. Size Inches	Cut Nos.				Number in Box	Approx. Weight Per Doz.
6	$2\frac{9}{64} \times \frac{1}{8}$	00	0	1	2	4	1 doz.

HAND FILES



Length Inches	Approx. Size Inches	Cut Nos.							Number in Box	Approx. Weight Per Doz.
3	$\frac{7}{16} \times \frac{5}{64}$	—	0	—	2	—	4	—	1 doz.	7 oz.
4	$\frac{1}{2} \times \frac{7}{64}$	00	0	1	2	3	4	—	1 doz.	14 oz.
6	$\frac{23}{32} \times \frac{5}{32}$	00	0	1	2	3	4	6	1 doz.	2 lbs., 5 oz.
8	$\frac{29}{32} \times \frac{3}{16}$	00	0	1	2	3	4	6	$\frac{1}{2}$ doz.	4 lbs., 9 oz.
10	$1 \frac{1}{16} \times \frac{7}{32}$	00	0	1	2	—	4	—	$\frac{1}{2}$ doz.	8 lbs.
12	$1 \frac{5}{32} \times \frac{1}{4}$	00	0	—	2	—	4	—	$\frac{1}{2}$ doz.	14 lbs., 8 oz.

Hand Files are parallel in width but taper in thickness. The sides are double cut. Hand Files in cuts Nos. 00, 0, 1 and 2 are single cut on one edge. The other edge is safe. Hand Files in cuts Nos. 3, 4 and 6 have two safe edges.

HAND CORRUGATING FILES



Length Inches	Approx. Size Inches	Cut Nos.			Number in Box	Approx. Weight Per Doz.
6	$\frac{23}{32} \times \frac{5}{32}$	0	2	4	12	2 lbs., 5 oz.

Hand Corrugating Files are made for corrugating the edges of Barbers' Shears and other edged tools. Made of rectangular section and double cut. They are designed to corrugate the blade when stroked straight across or, in other words, at right angles to the blade.

JOINT FILE — ROUND EDGE THICK

Joint Files are parallel in width and thickness and are made with round or square edges, thick or thin. Double cut on edges only. Sides are safe.



JOINT FILE — SQUARE EDGE THIN



	Length Inches	Cut Nos.	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
Thick	4	2	$1\frac{3}{32} \times \frac{5}{64}$	1 doz.	8 oz.
Thin	4	2	$1\frac{3}{32} \times \frac{3}{64}$	1 doz.	5 oz.

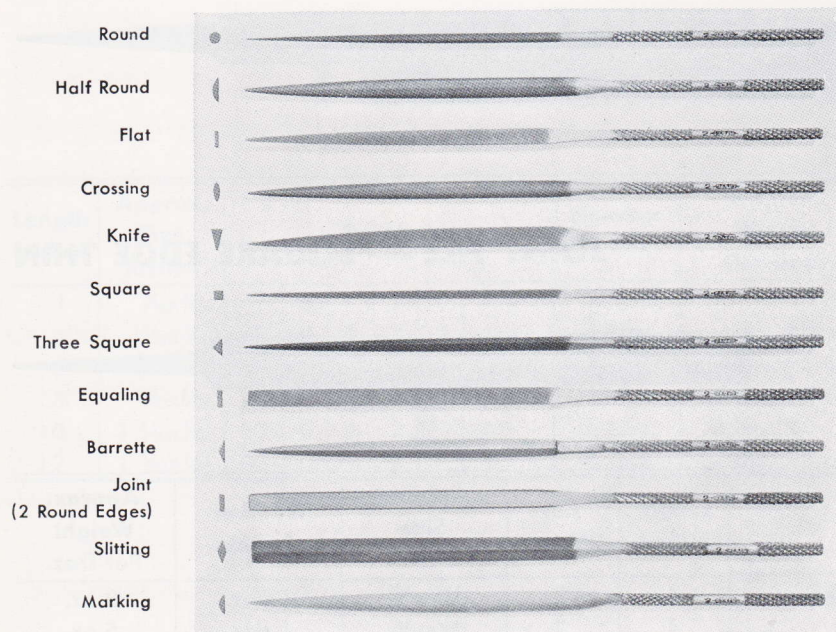
KNIFE FILES



Knife Files are made from steel that is knife shaped, the included angle of the sharp edge being approximately 10°. These files taper in width and thickness. Double cut on both sides and single cut on the edges.

Length Inches	Approx. Size Inches	Cut Nos.						Number in Box	Approx. Weight Per Doz.
4	$3\frac{1}{64}$	00	0	1	2	4		1 doz.	7 oz.
6	$2\frac{1}{32}$	00	0	1	2	4		1 doz.	1 lb., 2 oz.
8	$2\frac{7}{32}$	00	0	1	2	4		1 doz.	2 lbs., 3 oz.

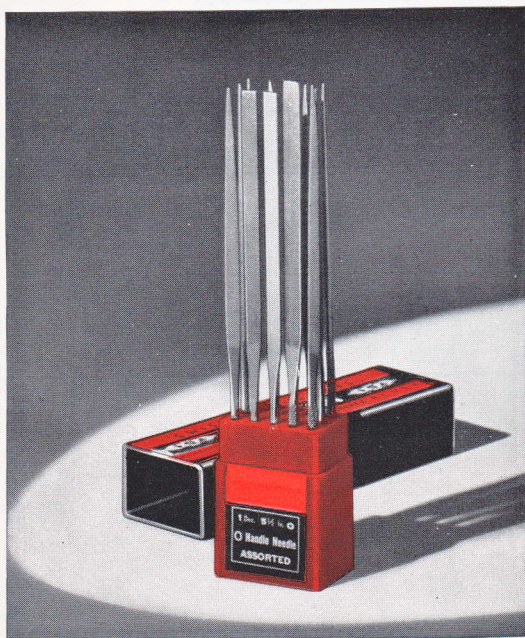
NEEDLE FILES — ROUND HANDLE



Round Handle Needle Files are used principally by jewelers, die makers, watchmakers and fine toolmakers. They are made in twelve different shapes as illustrated. In 4-inch lengths, Oval is furnished instead of Crossing.

These files have Knurled Handles as illustrated and when purchased in assorted sets are supplied in orange and blue plastic boxes which serve as bench stands and protective containers.

Length Inches	Cut Nos.				Number in Box	Approx. Weight Per Doz.
	0	2	4	6		
4	0	2	4	6	1 doz.	2 oz.
5½	0	2	4	6	1 doz.	4 oz.
6¼	0	2	4	6	1 doz.	6 oz.



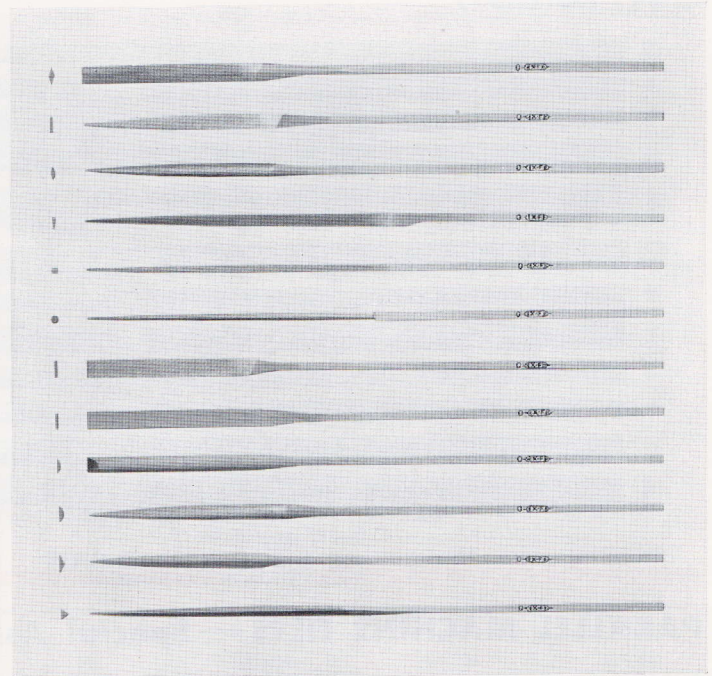
5 1/2" NEEDLE FILES—SQUARE HANDLE

Square Handle Needle or Escapement Files are made especially for watch and clock makers.

They are made in twelve different shapes as illustrated, in one size only, 5 1/2 inches overall, and in cuts Nos. 0, 2, 4 and 6.

Length Inches	Cut Nos.				Number in Box	Approx. Weight Per Doz.
5 1/2	0	2	4	6	1 doz.	3 oz.

Slitting
Flat
Crossing
Knife
Square
Round
Equaling
Joint
(2 Round Edges)
Half Round Blunt
Half Round
Barrette
Three Square

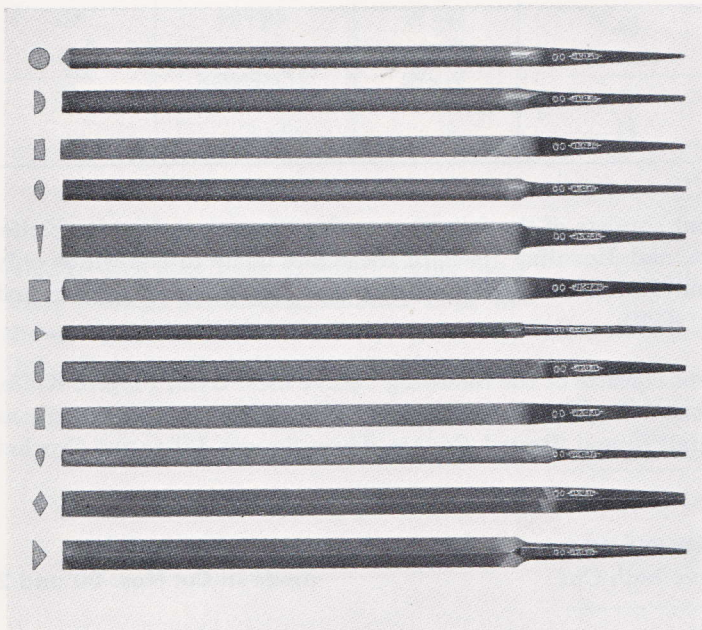


Parallel Machine Files, which are used in filing machines, come in twelve different shapes as illustrated. The files are 5 inches long, exclusive of tang, and made in cuts Nos. 00 and 2. Designed to cut in the regular manner with the cutting action taking place when the direction of the cutting stroke is towards the point and away from the tang.

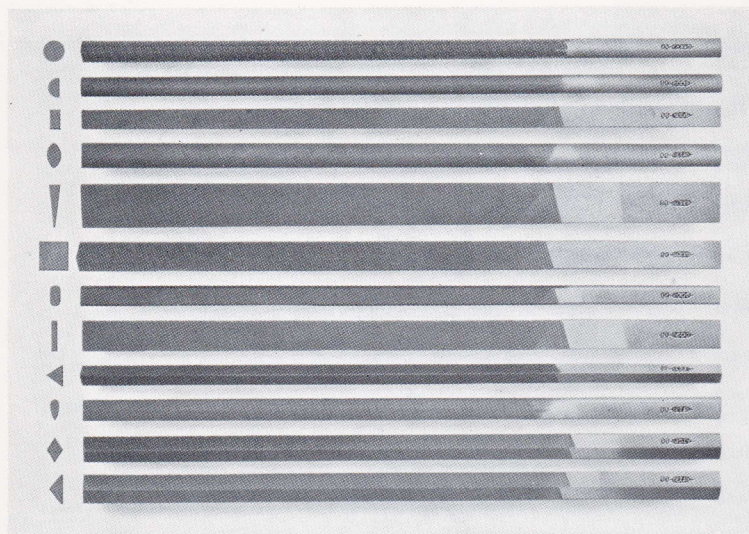
5" PARALLEL MACHINE FILES

In Cuts Nos. 00 and 2

Shape	Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
Round	5	1/4	1 doz.	1 lb., 1 oz.
Half Round	5	1 1/4 x 1/8	1 doz.	10 oz.
Pillar (2 Safe Edges)	5	1/4 x 1/8	1 doz.	12 oz.
Oval	5	1/4 x 5/32	1 doz.	11 oz.
Knife	5	3/8 x 3/32	1 doz.	9 oz.
Square	5	1/4	1 doz.	1 lb., 5 oz.
Three Square	5	3/16	1 doz.	6 oz.
Crochet	5	1/4 x 1/8	1 doz.	11 oz.
Equaling	5	1/4 x 1/8	1 doz.	11 oz.
Pippin	5	7/32 x 3/32	1 doz.	6 oz.
Lozenge	5	9/32 x 5/32	1 doz.	12 oz.
Cant	5	1 3/32 x 5/32	1 doz.	14 oz.



8" PARALLEL MACHINE FILES



Round
Half Round
Pillar
(1 Safe Edge)
Oval
Knife
Square
Crochet
Equaling
(or Warding)
Three Square
Pippin
Lozenge
Cant

8-inch Parallel Machine Files are made for filing machines of the Oliver, Harvey, Butterfly, Cochrane-Bly types. There are twelve different shapes as illustrated. Files are 8 inches over-all. Cut Nos. 00 and 2. Direction of cutting stroke is towards the shank. Supplied in assortments or in any quantity of any shape and size.

PARALLEL MACHINE FILES—Special Assortments

FURNISHED IN 8-INCH OVER-ALL LENGTH PACKED ONE DOZEN IN BOX

Shape	Approx. Size Inches	Shape	Approx. Size Inches	Shape	Approx. Size Inches	Shape	Approx. Size Inches
ROUND	1/8	PILLAR (1 Safe Edge)	3/16 x 3/32	SQUARE	3/16	EQUALING	3/8
	3/16		1/4 x 1/8		1/4		
	1/4		3/8 x 3/16		3/8	THREE SQUARE	3/16
	5/16		1/2 x 1/4		1/2		1/4
	3/8						3/8
	1/2						1/2
	5/8	OVAL	11/32	CROCHET	3/16 x 3/32		
HALF ROUND	3/16 x 3/32				1/4 x 1/8	PIPPIN	1 1/4
	1/4 x 1/8	KNIFE	15/32		3/8 x 3/16		
	3/8 x 3/16				1/2 x 3/16	LOZENGE	1 1/32
	1/2 x 1/4					CANT	3/8

SET No. 8S—Set of Twelve (Small)

This assortment consists of the following twelve files: Oval, Pippin, Knife, Lozenge, Cant, and Equaling (each of these files made in one width only as shown); and Half Round, Round, Square, Three Square, Pillar and Crochet in 3/16" width.

SET No. 8L—Set of Twelve (Large)

This assortment consists of the following twelve files: Oval, Pippin, Knife, Lozenge, Cant and Equaling (each of these files made in one width only as shown); and Half Round, Round, Square, Three Square, Pillar and Crochet in 3/8" width.

NOTE—The only difference between the assorted sets is the size and cross section of the last six files listed. When ordering, be sure to give both Cut No. and Set Size, ie. Large or Small.








BOTH SETS
made in Cut Nos. 00 and 2

PARALLEL MACHINE FILES — SPECIAL (Tension Type)



Special Parallel Machine Files (Tension Type) are made for use in Thiel, Simplex, Excel and Index Filing Machines. Made in cuts No. 1 (Bastard) and No. 3 (Smooth).

ORDER THE FILES BY STYLE NUMBER (i.e., Nos. 76, 92, 144, etc.)
AND CUT NUMBER 1 OR 3

Length Inches	 FLAT	 SQUARE	 THREE SQUARE	 ROUND	 HALF ROUND	 KNIFE	 CROCHET
4	1 $\frac{1}{16} \times \frac{1}{32}$	17 $\frac{1}{32}$	33 $\frac{1}{32}$	65 $\frac{1}{32}$	81 $\frac{1}{16} \times \frac{1}{64}$	129 $\frac{1}{16} \times \frac{1}{32}$	145 $\frac{1}{16} \times \frac{1}{64}$
4	2 $\frac{1}{8} \times \frac{1}{16}$	18 $\frac{1}{16}$	34 $\frac{1}{16}$	66 $\frac{5}{64}$	82 $\frac{1}{16} \times \frac{1}{32}$	130 $\frac{1}{8} \times \frac{1}{32}$	146 $\frac{1}{8} \times \frac{1}{32}$
5	6 $\frac{5}{32} \times \frac{1}{16}$	22 $\frac{1}{8}$	38 $\frac{1}{8}$	70 $\frac{1}{8}$	86 $\frac{1}{8} \times \frac{1}{16}$	134 $\frac{1}{8} \times \frac{1}{16}$	150 $\frac{1}{8} \times \frac{1}{16}$
5	9 $\frac{3}{16} \times \frac{1}{8}$	25 $\frac{3}{16}$	41 $\frac{1}{16}$	73 $\frac{3}{16}$	89 $\frac{3}{16} \times \frac{3}{32}$	137 $\frac{3}{16} \times \frac{1}{8}$	153 $\frac{3}{16} \times \frac{1}{8}$
6	7 $\frac{3}{16} \times \frac{1}{16}$	23 $\frac{5}{32}$	39 $\frac{1}{16}$	71 $\frac{5}{32}$	87 $\frac{5}{32} \times \frac{1}{16}$	135 $\frac{5}{32} \times \frac{1}{16}$	151 $\frac{5}{32} \times \frac{1}{16}$
6	12 $\frac{5}{16} \times \frac{1}{8}$	28 $\frac{9}{32}$	44 $\frac{9}{32}$	76 $\frac{1}{4}$	92 $\frac{5}{16} \times \frac{7}{64}$	140 $\frac{5}{16} \times \frac{5}{32}$	156 $\frac{9}{32} \times \frac{1}{8}$
6	13 $\frac{5}{16} \times \frac{5}{32}$	29 $\frac{5}{16}$	45 $\frac{5}{16}$	77 $\frac{5}{16}$	93 $\frac{5}{16} \times \frac{5}{32}$	141 $\frac{9}{32} \times \frac{5}{32}$	157 $\frac{5}{16} \times \frac{5}{32}$
8	16 $\frac{3}{8} \times \frac{3}{16}$	32 $\frac{3}{8}$	48 $\frac{3}{8}$	80 $\frac{3}{8}$	96 $\frac{3}{8} \times \frac{3}{16}$	144 $\frac{3}{8} \times \frac{3}{16}$	160 $\frac{3}{8} \times \frac{3}{16}$

NOTE—We also make Special Parallel Machine Files in extra wide Tension Type as shown by data at right. Made in No. 1 Cut Only. Order by Style No. (i.e. Nos. 501, etc.)

Length Inches	Flat	Crochet
5	501 $\frac{13}{32} \times \frac{1}{32}$	.....
5	.....	502 $\frac{13}{32} \times \frac{1}{32}$
6	503 $\frac{5}{8} \times \frac{5}{64}$	.....
6	.....	504 $\frac{5}{8} \times \frac{5}{64}$

PILLAR FILES


Length Inches	Approx. Size Inches	Cut Nos.							Number in Box	Approx. Weight Per Doz.
3	$1\frac{1}{4} \times \frac{5}{16}$	00	0	—	2	3	4	—	1 doz.	5 oz.
4	$2\frac{3}{4} \times \frac{7}{16}$	00	0	1	2	3	4	6	1 doz.	10 oz.
6	$\frac{1}{2} \times \frac{9}{16}$	00	0	1	2	3	4	—	1 doz.	1 lb., 10 oz.
8	$3\frac{3}{4} \times 1\frac{3}{16}$	00	0	1	2	3	4	—	$\frac{1}{2}$ doz.	3 lbs., 8 oz.
10	$4\frac{7}{4} \times 1\frac{5}{16}$	00	0	1	2	—	4	—	$\frac{1}{2}$ doz.	6 lbs., 3 oz.
12	$1\frac{3}{16} \times 1\frac{9}{16}$	00	0	1	2	—	—	—	$\frac{1}{2}$ doz.	9 lbs., 12 oz.

Pillar Files are similar in shape to Hand Files but only two-thirds as wide. Double cut on two sides only. Edges are safe.

PILLAR NARROW FILES


Length Inches	Approx. Size Inches	Cut Nos.							Number in Box	Approx. Weight Per Doz.
3	$\frac{7}{32} \times \frac{5}{16}$	—	0	1	2	—	4	6	1 doz.	4 oz.
4	$\frac{9}{32} \times \frac{7}{16}$	00	0	1	2	3	4	6	1 doz.	8 oz.
6	$2\frac{3}{4} \times \frac{9}{16}$	00	0	1	2	3	4	6	1 doz.	1 lb., 4 oz.
8	$2\frac{9}{16} \times 1\frac{3}{16}$	00	0	1	2	3	4	—	$\frac{1}{2}$ doz.	2 lbs., 10 oz.
10	$\frac{9}{16} \times 1\frac{7}{16}$	00	0	1	2	—	4	—	$\frac{1}{2}$ doz.	5 lbs., 3 oz.
12	$\frac{5}{8} \times \frac{9}{16}$	00	0	—	2	—	—	—	$\frac{1}{2}$ doz.	8 lbs., 8 oz.

Pillar Narrow Files are similar to Pillar Files but are narrower for their length. Double cut on two sides only. Edges are safe.

PILLAR EXTRA NARROW FILES


Length Inches	Approx. Size Inches	Cut Nos.							Number in Box	Approx. Weight Per Doz.
3	$\frac{9}{64} \times \frac{3}{32}$	00	0	1	2	—	4	6	1 doz.	3 oz.
4	$1\frac{1}{64} \times \frac{7}{16}$	00	0	1	2	3	4	6	1 doz.	5 oz.
6	$\frac{1}{4} \times \frac{9}{16}$	00	0	1	2	3	4	6	1 doz.	13 oz.
8	$\frac{5}{16} \times 1\frac{3}{16}$	00	0	1	2	3	4	—	1 doz.	1 lb., 15 oz.
10	$\frac{3}{8} \times 1\frac{5}{16}$	00	0	1	2	—	4	—	1 doz.	3 lbs., 11 oz.
12	$\frac{7}{16} \times \frac{1}{4}$	00	0	—	2	—	—	—	1 doz.	6 lbs.

Pillar Extra Narrow Files are similar to Pillar and Pillar Narrow Files but are narrower for their length. Cut on the two sides only. Edges are safe.

SPECIAL PILLAR FILES

In addition to the regular widths, Pillar Extra Narrow Files are furnished in the following sizes at 10% increase over regular prices:

PILLAR EXTRA NARROW FILES

6" x $\frac{1}{8}$ x $\frac{5}{16}$ ", in Cut Nos. 00, 0, 2, 3, 4 and 6.
6" x $\frac{3}{16}$ x $\frac{7}{16}$ ", in Cut Nos. 00, 0, 2, 3, and 4.

PILLAR AND PILLAR NARROW TESTING FILES



These Testing Files are like our regular product in shape only. They are not made for removal of stock, but for testing only, having specially shaped teeth, and special treatment.

	Length Inches	Cut Nos.		Number in Box	Approx. Weight Per Doz.
Pillar Testing File	6	0	1	1 doz.	1 lb., 10 oz.
Pillar Narrow Testing File	8	0	1	½ doz.	2 lbs., 10 oz.

HARDNESS TESTING WITH PILLAR TESTING FILES

Before leaving our plant, each file is tested on both sides on a piece of high carbon tool steel that has been hardened and tempered to 375°F. Each file must bite this piece of steel in good shape. These 375° provers register C63-64 Rockwell, and about No. 88 Scleroscope. When files are made to a standard and when it is known just the hardness that a new file will cut, then the file test becomes a real standard test. Since Nicholson Testing Files are made to such a standard and guaranteed to be uniform, the file test is the same from day to day. Of course the file in time will get dull, but good

judgment on the part of the workman overcomes this difficulty.

These files are not made for filing off stock, but just for testing. As soon as the file bites, it should be removed from the work in order to preserve and prolong its biting quality. If it does not bite, the work is too hard for the file. Pieces of steel or samples of the product known to have the proper hardness and temper are often used as gauges for comparison. Our Hardness Testing Files are used to a large extent by manufacturers of taps, drills, bits, reamers, ball bearings, gears, etc.

PIPPIN FILES



Length Inches	Approx. Size Inches	Cut Nos.			Number in Box	Approx. Weight Per Doz.
4	$\frac{9}{32} \times \frac{1}{8}$	00	0	2	1 doz.	7 oz.
6	$1\frac{3}{32} \times \frac{5}{32}$	00	0	2	1 doz.	1 lb., 1 oz.
8	$\frac{1}{2} \times \frac{7}{32}$	00	0	2	1 doz.	1 lb., 13 oz.

Pippin Files, sometimes called "Apple Seed" Files, have rounded backs which taper to a sharp edge. They also taper to a point in both width and thickness.

ROUND FILES



Length Inches	Approx. Size Inches	Cut Nos.							Number in Box	Approx. Weight Per Doz.
3	$\frac{3}{32}$	00	0	1	2	3	4	6	1 doz.	1 oz.
4	$\frac{1}{8}$	00	0	1	2	3	4	6	1 doz.	4 oz.
5	$\frac{5}{32}$	00	0	1	2	3	4	—	1 doz.	6 oz.
6	$\frac{3}{16}$	00	0	1	2	3	4	6	1 doz.	11 oz.
8	$\frac{1}{4}$	00	0	1	2	3	4	—	1 doz.	1 lb., 5 oz.
10	$2\frac{1}{64}$	00	0	1	2	—	4	—	1 doz.	2 lbs., 11 oz.
12	$2\frac{7}{64}$	00	0	—	2	—	—	—	1 doz.	4 lbs., 10 oz.

Round Files taper throughout their length to a fine point. Double cut.

ROUND STRAIGHT FILES



Length Inches	Approx. Size Inches	Cut Nos.				Number in Box	Approx. Weight Per Doz.
4	$\frac{1}{8}$	00	0	2	4	1 doz.	4 oz.
6	$\frac{3}{16}$	00	0	2	4	1 doz.	14 oz.
8	$\frac{1}{4}$	00	0	2	4	1 doz.	1 lb., 12 oz.

Round Straight Files are made from the same sizes of steel as Round Files but are parallel throughout their length. Double cut.

The diameters given are regular, and are furnished unless the customer specifies otherwise. Round Straight Files are also furnished in the following diameters.

4"	6"	8"
$\frac{1}{16}$ "	$\frac{1}{8}$ "	$\frac{5}{16}$ "
$\frac{3}{32}$ "	$\frac{5}{32}$ "	$\frac{3}{8}$ "

SCREW HEAD FILES

PLAIN



Screw Head Files are made for enlarging and cleaning out the slots in the heads of screws. They are made in two styles, plain and tanged, in one size only and in one cut, and are used principally by watch makers and jewelers.

TANGED

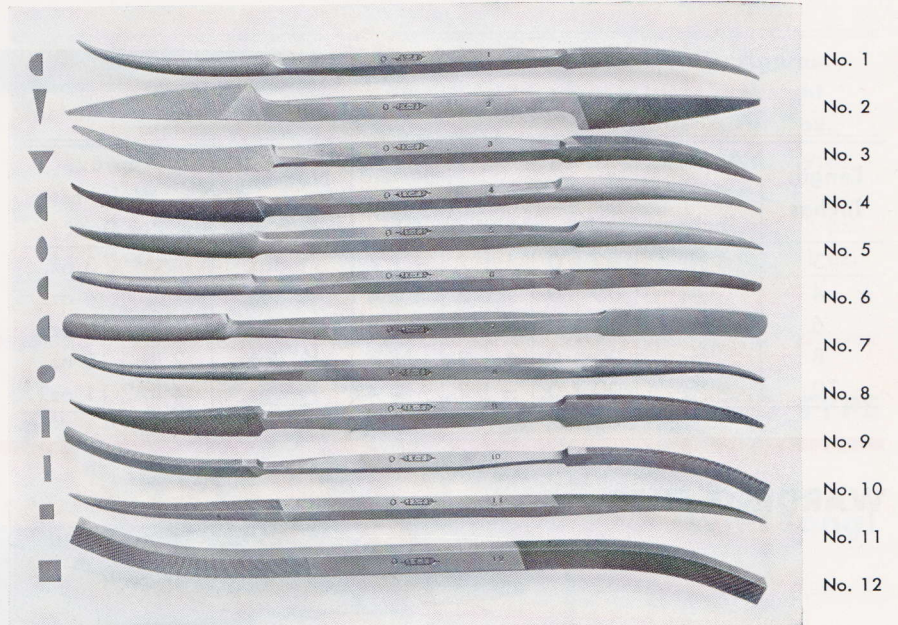


Length Inches	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
3	$\frac{7}{16} \times \frac{1}{32}$	1 doz.	Tanged, 3 oz. Plain, 2 oz.

7½" SILVERSMITHS RIFFLERS

Silversmiths Riffilers are made in 7½-inch length only, in twelve shapes as illustrated. May be purchased in assortments or in any quantity of each shape.

Length Inches	Cut Nos.	Number in Box	Approx. Weight Per Doz.
7½	0 | 2	1 doz.	15 oz.



SLITTING FILES



Slitting Files are made of double angular section, the included angle between the sides being approximately 18°. Double cut on the four sides and single cut on the two sharp edges.

Length Inches	Approx. Size Inches	Cut Nos.	Number in Box	Approx. Weight Per Doz.
4	$\frac{7}{16}$	0 | 2	1 doz.	6 oz.
6	$\frac{5}{8}$	0 | 2	1 doz.	14 oz.

SQUARE FILES



Length Inches	Approx. Size Inches	Cut Nos.						Number in Box	Approx. Weight Per Doz.
3	$\frac{1}{16}$	—	0	—	2	3	4	1 doz.	2 oz.
4	$\frac{7}{64}$	00	0	1	2	3	4	1 doz.	4 oz.
6	$\frac{5}{32}$	00	0	1	2	3	4	1 doz.	10 oz.
8	$\frac{15}{64}$	00	0	1	2	—	4	1 doz.	1 lb., 8 oz.
10	$\frac{21}{64}$	00	0	—	2	—	4	1 doz.	3 lbs.

Square Files are square in section and taper on all four sides to a fine point. Double cut on all four sides. One safe side when so ordered.

THREE SQUARE FILES



Length Inches	Approx. Size Inches	Cut Nos.						Number in Box	Approx. Weight Per Doz.
3	$\frac{5}{32}$	—	0	1	2	—	4	1 doz.	3 oz.
4	$\frac{15}{64}$	00	0	1	2	3	4	1 doz.	6 oz.
6	$\frac{11}{32}$	00	0	1	2	3	4	1 doz.	1 lb., 10 oz.
8	$\frac{15}{32}$	00	0	1	2	—	4	$\frac{1}{2}$ doz.	2 lbs., 10 oz.
10	$\frac{19}{32}$	00	0	—	2	—	4	$\frac{1}{2}$ doz.	4 lbs., 11 oz.

Three Square Files are triangular in section with angles of 60°. They taper to a point and have sharp corners. Double cut on the three sides and single cut on the edges.

WARDING FILES



Length Inches	Approx. Size Inches	Cut Nos.						Number in Box	Approx. Weight Per Doz.
3	$\frac{13}{32} \times \frac{1}{32}$	00	0	2	4	—	—	1 doz.	3 oz.
4	$\frac{7}{16} \times \frac{3}{64}$	00	0	2	4	—	—	1 doz.	5 oz.
6	$\frac{19}{32} \times \frac{5}{64}$	00	0	2	4	—	—	1 doz.	13 oz.
8	$\frac{25}{32} \times \frac{3}{32}$	00	0	2	4	—	—	1 doz.	1 lb., 10 oz.
10	$\frac{15}{16} \times \frac{7}{64}$	00	0	2	—	—	—	1 doz.	2 lbs., 15 oz.

Warding Files are rectangular in section with thickness approximately one-eighth their width. They taper slightly in thickness and to a point in width.

Warding Files may also be obtained in the following B & S gauges, and in the cut Nos. shown below.

3"—18 B&S gauge (.040") in 0 only
 3"—20 B&S gauge (.032") in 0 only
 3"—22 B&S gauge (.025") in 0 only
 4"—16 B&S gauge (.051") in 0, 2, 4
 4"—18 B&S gauge (.040") in 0, 2, 4
 4"—20 B&S gauge (.032") in 0, 2, 4
 6"—11 B&S gauge (.091") in 0, 2, 4
 6"—13 B&S gauge (.072") in 0, 2, 4
 6"—14 B&S gauge (.064") in 0, 2, 4
 6"—16 B&S gauge (.051") in 0, 2, 4
 6"—18 B&S gauge (.040") in 0, 2, 4
 6"—20 B&S gauge (.032") in 0, 2, 4

SUPERIOR MILLED TOOTH

Made on newly designed and improved Nicholson machinery, these files are ideally fitted for smooth, rapid work on Cast Iron, Bronze, Lead, Babbitt, Aluminum, Zinc, Plastics and any of the steels up to the hard-

ness of commercial annealed tool steel. Tooth profile is scientifically determined for the right pitch and rake to avoid pinning up and to give the smoothest finish.

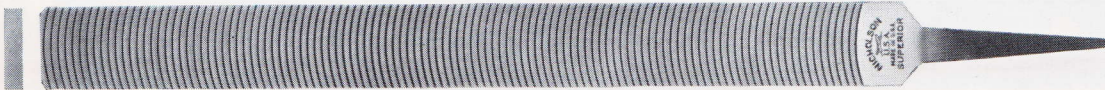
FLEXIBLE FILES



(Without Tang)

Length Inches	Approx. Size Inches	Number of Teeth Per Inch			Number in Box	Approx. Weight Per Doz.
		Standard	Fine	Smooth		
8	$2\frac{5}{32} \times \frac{5}{32}$	14	16	—	1 doz.	2 lbs., 9 oz.
10	$1 \times \frac{5}{32}$	12	14	—	1 doz.	3 lbs., 15 oz.
12	$1 \frac{5}{32} \times \frac{3}{16}$	10	14	16	$\frac{1}{2}$ doz.	5 lbs., 8 oz.
14	$1 \frac{11}{32} \times \frac{3}{16}$	8	12	15	$\frac{1}{2}$ doz.	7 lbs., 1 oz.

FLAT FILES — RIGID TYPE



(With Tang)

Length Inches	Approx. Size Inches	Number of Teeth Per Inch			Number in Box	Approx. Weight Per Doz.
		Standard	Fine	Smooth		
8	$1\frac{3}{16} \times 1\frac{1}{4}$	14	16	18	1 doz.	2 lbs., 12 oz.
10	$1 \times \frac{7}{32}$	12	14	18	$\frac{1}{2}$ doz.	5 lbs., 14 oz.
12	$1 \frac{5}{32} \times 1\frac{1}{4}$	10	14	16	$\frac{1}{2}$ doz.	9 lbs., 5 oz.
14	$1 \frac{11}{32} \times \frac{5}{16}$	8	12	15	$\frac{1}{2}$ doz.	14 lbs., 14 oz.

FLAT BABBITT FILES



Length Inches	Approx. Size Inches	Number of Teeth Per Inch	Number in Box	Approx. Weight Per Doz.
8	$1\frac{3}{16} \times 1\frac{1}{4}$	10	1 doz.	2 lbs., 8 oz.
10	1 x $\frac{7}{32}$	10	$\frac{1}{2}$ doz.	5 lbs., 6 oz.
12	$1\frac{5}{32} \times 1\frac{7}{64}$	8	$\frac{1}{2}$ doz.	9 lbs., 4 oz.
14	$1\frac{11}{32} \times \frac{5}{16}$	7	$\frac{1}{2}$ doz.	14 lbs., 12 oz.

Exactly like Flat Files in shape, dimension, weight, but fewer teeth per inch.

FLAT UTILITY FILES



Length Inches	Approx. Size Inches	Number of Teeth Per Inch		Number in Box	Approx. Weight Per Doz.
		Standard Side	Smooth Side		
8	$1\frac{3}{16} \times 1\frac{1}{4}$	14	18	1 doz.	2 lbs., 15 oz.
10	1 x $\frac{7}{32}$	12	18	$\frac{1}{2}$ doz.	6 lbs., 4 oz.
12	$1\frac{5}{32} \times 1\frac{7}{64}$	10	16	$\frac{1}{2}$ doz.	10 lbs., 3 oz.
14	$1\frac{11}{32} \times \frac{5}{16}$	8	15	$\frac{1}{2}$ doz.	16 lbs., 13 oz.

Like Flat Files in general appearance. Standard cut teeth on one side. Smooth cut teeth on other.

HALF ROUND FILES



Length Inches	Approx. Size Inches	Number of Teeth Per Inch		Number in Box	Approx. Weight Per Doz.
		Standard	Fine		
8	$2\frac{3}{32} \times \frac{1}{4}$	14	16	1 doz.	3 lbs., 8 oz.
10	$1\frac{5}{16} \times \frac{5}{16}$	12	14	$\frac{1}{2}$ doz.	6 lbs., 5 oz.
12	1 $\frac{1}{8} \times \frac{3}{8}$	10	14	$\frac{1}{2}$ doz.	11 lbs., 5 oz.
14	$1\frac{9}{32} \times 2\frac{7}{64}$	9	12	$\frac{1}{2}$ doz.	17 lbs., 9 oz.

Flat on one side. Convex on other. Particularly adapted for bearings and concave surfaces.

PILLAR FILES



Useful in sharp corners and narrow slots. Cut on sides only. Safe edges.

Length Inches	Approx. Size Inches	Number of Teeth Per Inch Standard	Number in Box	Approx. Weight Per Doz.
8	$1\frac{7}{32} \times \frac{1}{4}$	18	1 doz.	3 lbs., 8 oz.
10	$2\frac{1}{32} \times 1\frac{9}{64}$	16	1 doz.	6 lbs., 8 oz.
12	$2\frac{5}{32} \times 2\frac{3}{64}$	14	$\frac{1}{2}$ doz.	11 lbs., 13 oz.

Made in Standard Only.

SQUARE FILES



Cut on all four sides and useful for working in holes, narrow corners and keyways.

Length Inches	Approx. Size Inches	Number of Teeth Per Inch Standard	Number in Box	Approx. Weight Per Doz.
8	$1\frac{7}{64}$	18	1 doz.	1 lb., 1 oz.
10	$1\frac{1}{32}$	16	1 doz.	3 lbs., 4 oz.
12	$1\frac{5}{32}$	14	$\frac{1}{2}$ doz.	7 lbs., 9 oz.

Made in Standard Only.

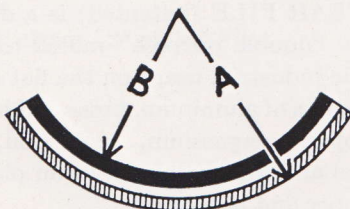
HALF ROUND SHELL FILES — RIGID TYPE FILES



(Without Tang)

With teeth on convex side only. Shell Files are designed for use in concave surfaces. Files have hole in each end for fastening to holder. Rigid construction.

A = RADIUS—SHELL FILES
B = RADIUS—MOULDING FILES



Length Inches	Radius R Inches	Approx. Size Inches	Number of Teeth Per Inch		Number in Box	Approx. Weight Per Doz.
			Standard	Fine		
8	$\frac{9}{16}$	$\frac{7}{8} \times \frac{1}{8}$	14	—	1 doz.	2 lbs., 5 oz.
10	$\frac{23}{32}$	$1\frac{1}{8} \times \frac{1}{8}$	12	—	1 doz.	4 lbs., 3 oz.
12	$\frac{7}{8}$	$1\frac{1}{4} \times \frac{1}{8}$	10	—	$\frac{1}{2}$ doz.	5 lbs., 7 oz.
14	$1\frac{1}{16}$	$1\frac{15}{32} \times \frac{1}{8}$	8	12	$\frac{1}{2}$ doz.	7 lbs., 14 oz.

Length	A	B
8"	$\frac{9}{16}$ "	$\frac{7}{16}$ "
10"	$\frac{23}{32}$ "	$1\frac{9}{32}$ "
12"	$\frac{7}{8}$ "	$\frac{3}{4}$ "
14"	$1\frac{1}{16}$ "	$1\frac{5}{16}$ "

HALF ROUND MOULDING FILES — Rigid Type (Without Tang)



Length Inches	Radius R Inches	Approx. Size Inches	Number of Teeth Per Inch Standard	Number in Box	Approx. Weight Per Doz.
8	$\frac{7}{16}$	$\frac{7}{8} \times \frac{1}{8}$	14	1 doz.	2 lbs., 5 oz.
10	$\frac{9}{32}$	$1 \frac{1}{8} \times \frac{1}{8}$	12	1 doz.	3 lbs., 9 oz.
12	$\frac{3}{4}$	$1 \frac{1}{4} \times \frac{1}{8}$	10	$\frac{1}{2}$ doz.	5 lbs.
14	$1\frac{1}{16}$	$1\frac{1}{2} \times \frac{1}{8}$	8	$\frac{1}{2}$ doz.	8 lbs.

Made in Standard Only.

Moulding Files have teeth on inside or concave surface only. Used on convex surfaces. Rigid construction.

For information on how the radius is measured, see diagram on preceding page.

SUPER SHEAR



**A double purpose Milled Curved Tooth File—
new and different and exclusive with
Nicholson**

A Curved Tooth File that Smooths as it Roughs

Length Inches	Approx. Size Inches	Number of Teeth Per Inch			Number in Box	Approx. Weight Per Doz.
		Standard	Fine	Smooth		
8	$1\frac{3}{16} \times 1\frac{1}{64}$	14	16	18	1 doz.	2 lbs., 12 oz.
10	$1 \times \frac{7}{32}$	12	14	18	$\frac{1}{2}$ doz.	5 lbs., 14 oz.
12	$1 \frac{5}{32} \times 1\frac{7}{64}$	10	14	16	$\frac{1}{2}$ doz.	9 lbs., 5 oz.
14	$1\frac{1}{32} \times \frac{5}{16}$	8	12	15	$\frac{1}{2}$ doz.	17 lbs.

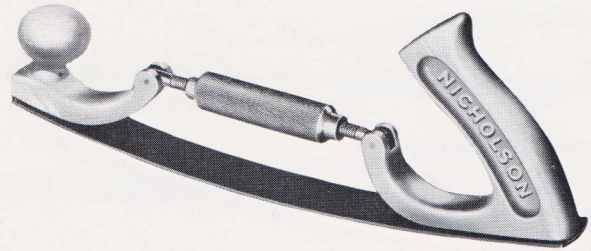
DESIGN—The Curved teeth of the Nicholson Super-Shear are cut in an arc that is “off center” in relation to the axis of the file. This permits the teeth to begin with wide gullets and a right angle—for fast cutting. They become shorter and closer together as they terminate in a long, shearing angle—for producing the smoothing effect. Thus, when a surface is filed with an overlapping stroke in the usual right-toward-left working direction, the Nicholson Super-Shear “smooths out its tracks as it goes.” Practically two files in one!

ADVANTAGES—Fast cutting and smooth finishing in one operation. Easy control of file for accurate work. Easy clearance that saves time and keeps the file efficient when working in soft metals that clog ordinary files. Long-lasting quality and unwavering uniformity. Twelve perfect files in every dozen.

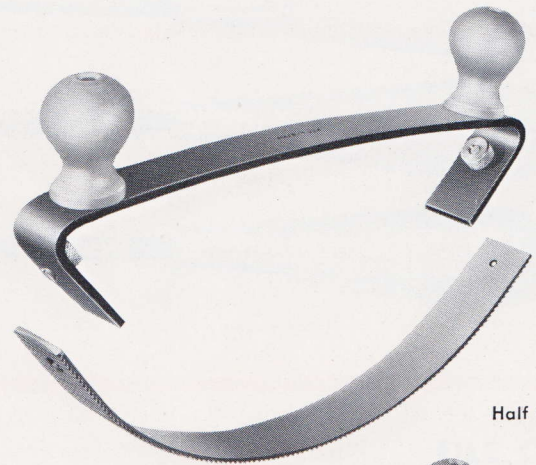
USES — The NICHOLSON SUPER-SHEAR FILE (patented) is a distinctively new “double purpose” milled tooth file for wide industrial usage on the flat and convex surfaces of aluminum, brass, babbitt, bronze, copper, magnesium, and iron, annealed steel and soft metal alloys, on plastics, hard rubber and hardwood.

ADJUSTABLE FLEXIBLE FILE HOLDER NO. 25

Can be used with either 12" or 14" Files and is easily adjusted for curving the file either outward or inward.

**NICHOLSON SUPERIOR HOLDERS**

No. 22 Holder, for use with
Half Circle File

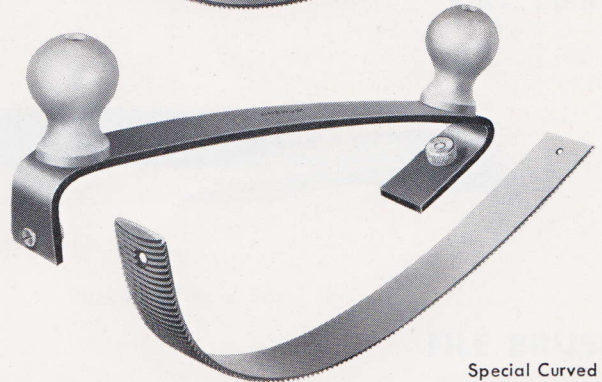


Half Circle File

Please note that these items are listed
and sold separately.

Half Circle and Special Curved Superior Files are for use on fenders and in fender wells. They are not flexible and have teeth on one side only. Made in 14" length and in Standard Cut.

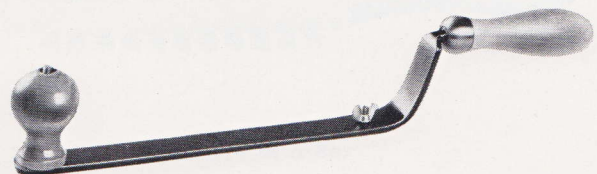
No. 23 Holder, for use with
Special Curved File



Special Curved File

STRAIGHT FILE HOLDER NO. 24

For use with either 12" or 14" Files.



BENT RIFFLERS (Handled)

Bent Riffilers are used principally by wood carvers, metal and stone workers for shaping and finishing in and about the many irregular places of pattern work. Made in six different shapes and styles of cuts as illustrated. Over-all length of tools, including handle, is approximately 7¾ inches. Packed one-half dozen in box.

Three Square Bastard

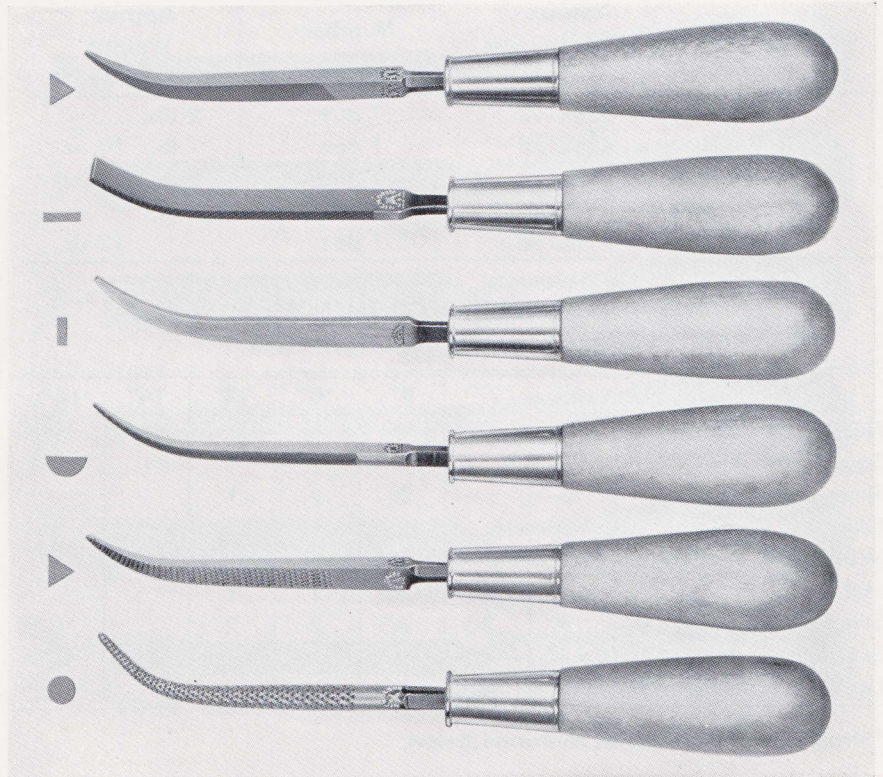
Hand Bastard

Flat Float Safe Sides

Half Round Bastard

Three Square Rasp

Round Rasp



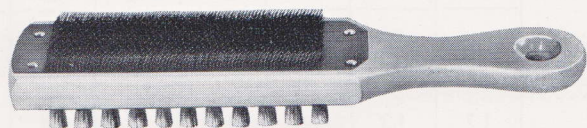
Nicholson makes file cleaners in two styles—the file card for general cleaning of file teeth and the file brush especially for use on the finer cut files. The file card is shown in the illustration above. Overall length of each type cleaner is 10". Approximate shipping weights per dozen—File Card 3 lbs., 11 oz.; File Brush 5 lbs.

FILE CARD



Packed 12 to a Box

FILE BRUSH



Packed 6 to a Box

METAL FERRULED HANDLES

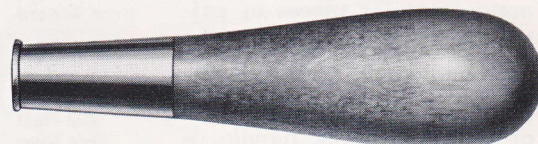
No.	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
0	5¼ x 1½	1 doz.	2 lbs.
1	4⅞ x 1⅝	1 doz.	1 lb., 10 oz.
2	4½ x 1⅜	1 doz.	1 lb., 4 oz.
3	4⅛ x 1⅛	1 doz.	1 lb.
4	3¾ x 1⅝	1 doz.	12 oz.

SIZES OF HANDLES RECOMMENDED FOR SOME OF MORE COMMON FILES

	6"	7"	8"	10"	12"	14"	16"
Flat, Half Round, Hand	3	..	2	1	1	0	0
Square, Round	15*	..	3	2	1	1	0
Three Square	3	..	2	2	1	..	..
Pillar	3	..	2	1	1	..	..
Warding, Knife	4	..	3	1	..	..	..
Mill	4	3	3	2	1	..	..
Slim Taper	4	3	3	2	2	..	..
Extra Slim Taper	14*	4	3	..	..	..	..
Double Extra Slim Taper	13*	4	4	..	..	..	..

*Straight Ferruled Handles illustrated below.

These handles have very strong metal ferrules. Made from seasoned white birch with nickel plated steel ferrules—shellac finish.



STRAIGHT FERRULED HANDLES

No.	Approx. Size Inches	Number in Box	Approx. Weight Per Doz.
11	3⅝ x ⅞	1 doz.	5 oz.
12	4⅛ x 1⅞	1 doz.	7 oz.
13	4½ x 3⅞	1 doz.	9 oz.
14	5 x 4⅝	1 doz.	12 oz.
15	5⅛ x 4⅞	1 doz.	15 oz.



These handles are made of kiln dried birch, stained and waxed. Steel ferrules inserted.

SIZES OF HANDLES RECOMMENDED FOR SOME OF MORE COMMON FILES

	American Pattern			X.F. Swiss Pattern				
	4"	5"	6"	3"	3½"	4"	5"	6"
Die Sinkers	..	..	..	..	12	..	..	..
Metal Saw	..	..	..	11	..	14	14	14
Pippin	..	..	..	..	..	13	..	15
Round	12	13	15	11	..	14	14	14
Square	12	13	15	11	..	13	..	15
Three Square	..	..	..	12	..	14	14	14
Triangular	13	13	15	..	..	..	..	..

4" MACHINISTS SCRAPERS

Three Square
4" x $\frac{3}{8}$ ", 60° angle (Hollow Ground)

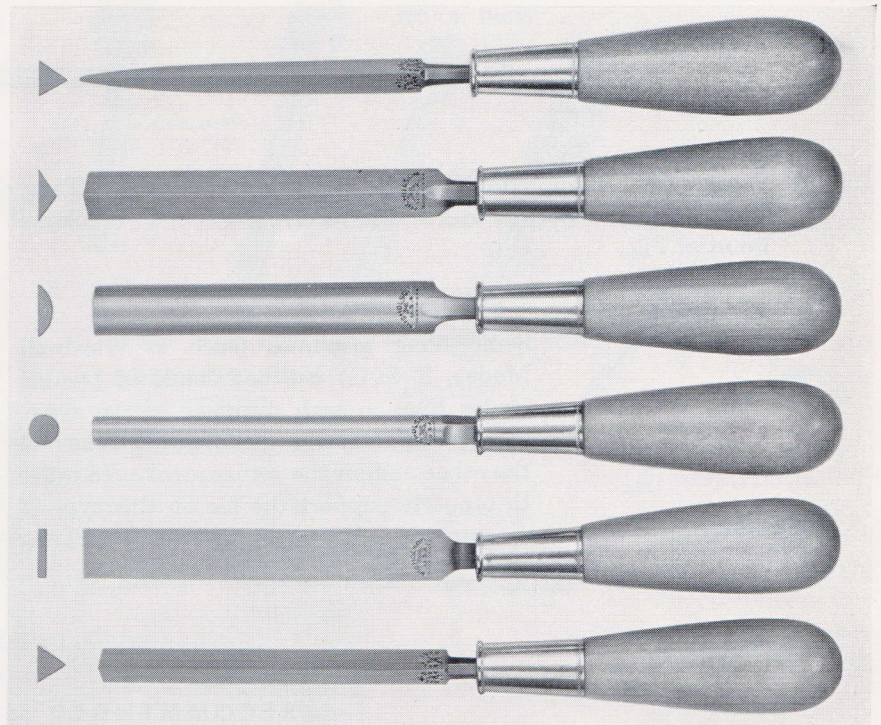
Cant Blunt
4" x $1\frac{7}{32}$ ", 110° angle

Half Round Blunt
4" x $1\frac{19}{32}$ " x $\frac{5}{32}$ "

Round Blunt
4" x $1\frac{1}{32}$ "

Mill Blunt
4" x $1\frac{19}{32}$ " x $\frac{3}{32}$ "

Three Square Blunt
4" x $\frac{3}{8}$ ", 60° angle



Machinists Scrapers are made in six shapes as illustrated and are sufficiently varied for a wide line of work. Furnished "dead hard." Packed one-half dozen in box.

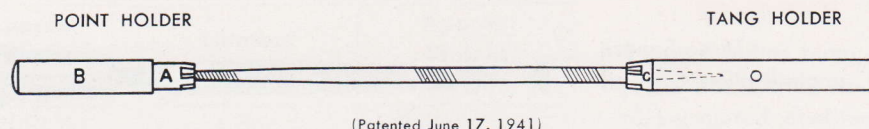
Note that the three square shape is also supplied in Hollow Ground with 60° angle. Overall length of these tools including handle, is approximately 8". Packed one-half dozen in box.

3¼" MACHINISTS SCRAPERS

THREE SQUARE HOLLOW GROUND 60° ANGLE

No.	Length Overall Inches	Dimensions	Number in Box
15	8	$3\frac{1}{4} \times \frac{3}{8}$ "	$\frac{1}{2}$ doz.
16	8	$3\frac{1}{4} \times \frac{1}{4}$ "	$\frac{1}{2}$ doz.

POINT AND TANG HOLDERS



Plunger (A) is mounted in Cylindrical Sleeve (B). Triangular Socket in Plunger receives Point of File.

Tang slips into Tang Holder and Triangular Socket (C) receives Shoulder of File.

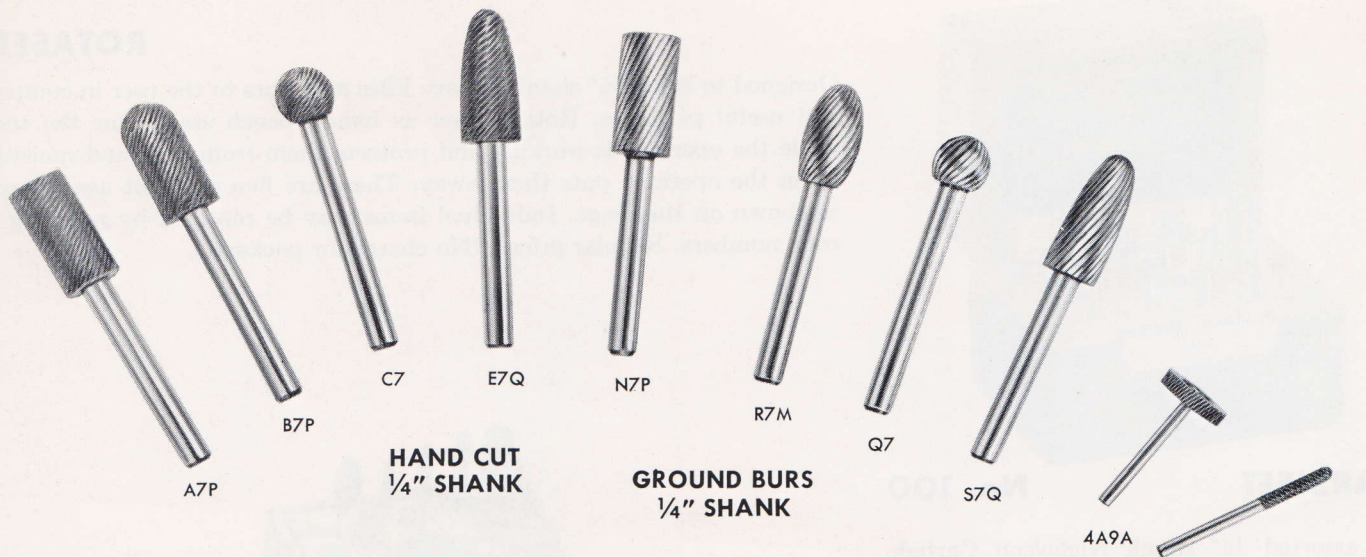
Some filing machines (such as Wardwell Models F & G) use both ends of Double Ender Files in each complete stroke cycle, with one end filing on the forward stroke and the other end on the return stroke. In order to properly support the file on this type of machine, it is necessary to order two Tang

Holders and to use one on each end of the file. On machines that utilize only one-half of the Double Ender Files and file in one direction only during the complete stroke cycle, the conventional arrangement should be used with a Tang Holder at the front and a Point Holder in the rear of the file bracket.

RECOMMENDED SIZES

In.	Kind	Tang Holder	Point Holder
4"	Slim.....	3	B
4"	Ex. Slim.....	2	B
4"	Double Ex. Slim.....	2	B
4½"	Butcher Saw.....	3	B
5"	Slim.....	3	C
5"	Ex. Slim.....	3	B
5"	Double Ex. Slim.....	2	B
5"	Skip Tooth Band Saw Diamond Point.....	3	B
5½"	Ex. Slim.....	3	B
6"	Taper.....	6	C
6"	Slim.....	4	C
6"	Ex. Slim.....	3	C
6"	Double Ex. Slim.....	3	B
6"	Skip Tooth Band Saw Diamond Point.....	3	B
7"	Taper.....	7	D
7"	Slim.....	5	C
7"	Ex. Slim.....	4	C
7"	Double Ex. Slim.....	3	B

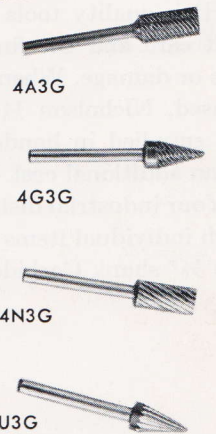
In.	Kind	Tang Holder	Point Holder
8"	Slim.....	6	C
8"	Ex. Slim.....	5	C
8"	Double Ex. Slim.....	4	B
6"	Bandsaw Blunt.....	6	E
6"	Bandsaw Blunt Slim.....	4	D
6"	Bandsaw Taper No. 63.....	6	D
6"	Bandsaw Taper Slim No. 64.....	5	C
7"	Bandsaw Taper No. 73.....	6	D
7"	Bandsaw Taper Slim No. 74.....	5	C
8"	Bandsaw Blunt.....	8	F
8"	Bandsaw Blunt Slim.....	6	E
6"	Double Enders.....	A	B
7"	Double Enders.....	A	B
8"	Double Enders.....	A	C
9"	Double Enders.....	3	C
10"	Double Enders.....	3	C



Nicholson makes a top quality line of Rotary Power Files, a few selections of which are shown on this page. For complete catalog and full details, send the enclosed post card to us. It is already addressed. No postage required.

We also specialize in making rotary power files and burs to customers' specifications. Send us blue print, model or written description. Quotations gladly given.

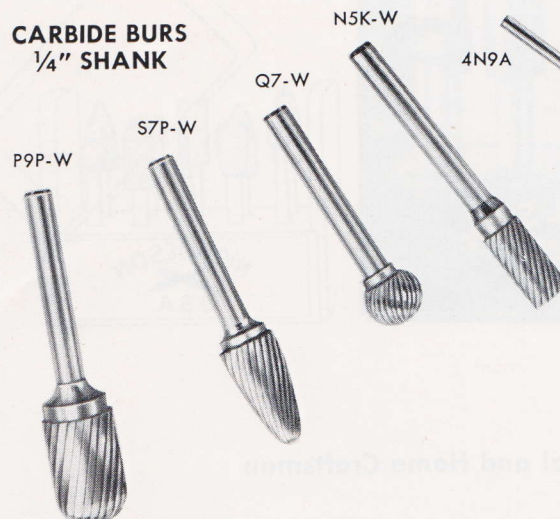
HAND CUT 1/8" SHANK



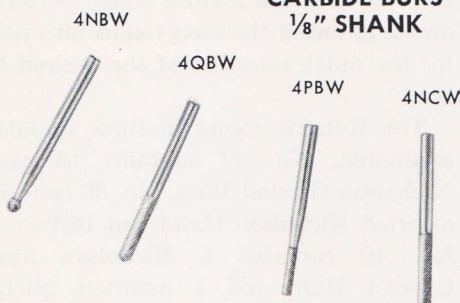
GROUND BURS 1/8" SHANK

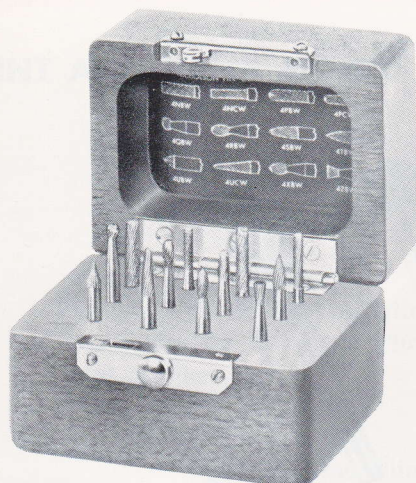


CARBIDE BURS 1/4" SHANK



CARBIDE BURS 1/8" SHANK





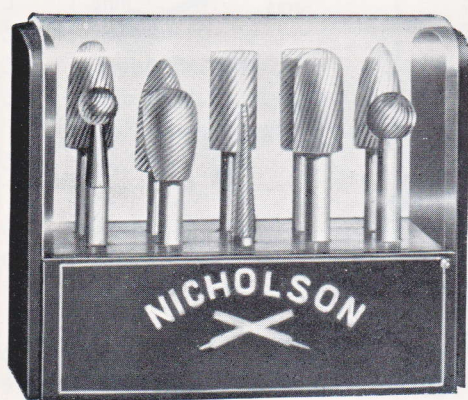
CARBISET

No. 100

12 assorted $\frac{1}{8}$ " shank Nicholson Carbide Burs in handsome mahogany box.

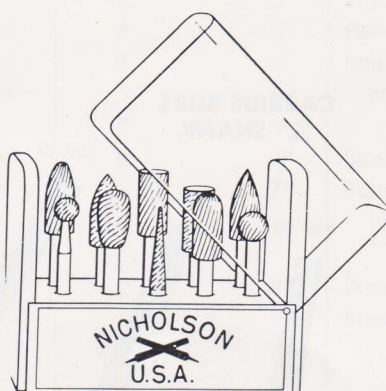
High quality tools like these deserve the best care and the finest protection against loss or damage. When a set of twelve is purchased, Nicholson $\frac{1}{8}$ " shank Carbide Burs are supplied in handsome mahogany boxes at no additional cost.

Your industrial distributor can supply you with individual items or with sets of Nicholson $\frac{1}{8}$ " shank Carbide Burs.



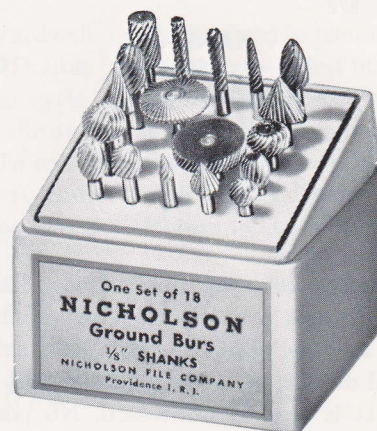
ROTAKIT

Pride of the Industrial and Home Craftsman



ROTASETS

Designed to bring $\frac{1}{8}$ " shank Rotary Files and Burs to the user in compact and useful packages, Rotasets act as handy bench stands for the tools while the operator is working and protects them from dust and moisture when the operator puts them away. There are five different assortments as shown on this page. Individual items may be replaced by referring to code numbers. Regular prices. (No charge for package.)



**Rotasets to
Meet Every Need**

With Rotary Files and Ground Burs becoming more and more popular among high grade machinists, the Rotakit will win instant approval from everyone who wants his valuable tools well protected when he is not using them; and immediately accessible for instant use.

The Rotakit is the new and logical method of packaging Rotary Files and Ground Burs. It serves as a handy bench stand. It has a convenient hinge feature which permits the owner to swing the assortment into position for the quick selection of the desired file or bur.

The Rotakit comes in three popular assortments. No. 20 contains 10 assorted Nicholson Ground Burs. No. 30 contains 10 assorted Nicholson Hand Cut Rotary Files. No. 40 contains 5 Nicholson assorted Ground Burs and 5 assorted Nicholson Hand Cut Rotary Files.

There is no charge for this handsome container.